


| STATE OF UTAH<br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS AND MINING                                                                  |           |                  |                                                                                                                                                                        |         |                                                                            | FORM 3<br>AMENDED REPORT <input type="checkbox"/>                                                                                                                |         |          |       |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|-------|--------|
| <b>APPLICATION FOR PERMIT TO DRILL</b>                                                                                                               |           |                  |                                                                                                                                                                        |         |                                                                            | 1. WELL NAME and NUMBER<br>Murray 3-27A1E                                                                                                                        |         |          |       |        |
| 2. TYPE OF WORK<br>DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/> |           |                  |                                                                                                                                                                        |         |                                                                            | 3. FIELD OR WILDCAT<br>BLUEBELL                                                                                                                                  |         |          |       |        |
| 4. TYPE OF WELL<br>Oil Well Coalbed Methane Well: NO                                                                                                 |           |                  |                                                                                                                                                                        |         |                                                                            | 5. UNIT or COMMUNITIZATION AGREEMENT NAME                                                                                                                        |         |          |       |        |
| 6. NAME OF OPERATOR<br>EP ENERGY E&P COMPANY, L.P.                                                                                                   |           |                  |                                                                                                                                                                        |         |                                                                            | 7. OPERATOR PHONE<br>713 997-5038                                                                                                                                |         |          |       |        |
| 8. ADDRESS OF OPERATOR<br>1001 Louisiana, Houston, TX, 77002                                                                                         |           |                  |                                                                                                                                                                        |         |                                                                            | 9. OPERATOR E-MAIL<br>maria.gomez@epenergy.com                                                                                                                   |         |          |       |        |
| 10. MINERAL LEASE NUMBER<br>(FEDERAL, INDIAN, OR STATE)<br>1420H622662                                                                               |           |                  | 11. MINERAL OWNERSHIP<br>FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>       |         |                                                                            | 12. SURFACE OWNERSHIP<br>FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |         |          |       |        |
| 13. NAME OF SURFACE OWNER (if box 12 = 'fee')<br>Tyson L. & Cara Murray                                                                              |           |                  |                                                                                                                                                                        |         |                                                                            | 14. SURFACE OWNER PHONE (if box 12 = 'fee')<br>435-790-2025                                                                                                      |         |          |       |        |
| 15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')<br>PO Box 433, Lapoint, UT 84039                                                                    |           |                  |                                                                                                                                                                        |         |                                                                            | 16. SURFACE OWNER E-MAIL (if box 12 = 'fee')                                                                                                                     |         |          |       |        |
| 17. INDIAN ALLOTTEE OR TRIBE NAME<br>(if box 12 = 'INDIAN')<br>UTE                                                                                   |           |                  | 18. INTEND TO COMMINGLE PRODUCTION FROM<br>MULTIPLE FORMATIONS<br>YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/> |         |                                                                            | 19. SLANT<br>VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>                               |         |          |       |        |
| 20. LOCATION OF WELL                                                                                                                                 |           | FOOTAGES         |                                                                                                                                                                        | QTR-QTR | SECTION                                                                    | TOWNSHIP                                                                                                                                                         | RANGE   | MERIDIAN |       |        |
| LOCATION AT SURFACE                                                                                                                                  |           | 724 FNL 1962 FWL |                                                                                                                                                                        | NENW    | 27                                                                         | 1.0 S                                                                                                                                                            | 1.0 E   | U        |       |        |
| Top of Uppermost Producing Zone                                                                                                                      |           | 724 FNL 1962 FWL |                                                                                                                                                                        | NENW    | 27                                                                         | 1.0 S                                                                                                                                                            | 1.0 E   | U        |       |        |
| At Total Depth                                                                                                                                       |           | 724 FNL 1962 FWL |                                                                                                                                                                        | NENW    | 27                                                                         | 1.0 S                                                                                                                                                            | 1.0 E   | U        |       |        |
| 21. COUNTY<br>UINTAH                                                                                                                                 |           |                  | 22. DISTANCE TO NEAREST LEASE LINE (Feet)<br>724                                                                                                                       |         |                                                                            | 23. NUMBER OF ACRES IN DRILLING UNIT<br>640                                                                                                                      |         |          |       |        |
|                                                                                                                                                      |           |                  | 25. DISTANCE TO NEAREST WELL IN SAME POOL<br>(Applied For Drilling or Completed)<br>1500                                                                               |         |                                                                            | 26. PROPOSED DEPTH<br>MD: 13900 TVD: 13900                                                                                                                       |         |          |       |        |
| 27. ELEVATION - GROUND LEVEL<br>5312                                                                                                                 |           |                  | 28. BOND NUMBER<br>RLB0009692                                                                                                                                          |         |                                                                            | 29. SOURCE OF DRILLING WATER /<br>WATER RIGHTS APPROVAL NUMBER IF APPLICABLE<br>Roosevelt City & Ballard City                                                    |         |          |       |        |
| <b>Hole, Casing, and Cement Information</b>                                                                                                          |           |                  |                                                                                                                                                                        |         |                                                                            |                                                                                                                                                                  |         |          |       |        |
| String                                                                                                                                               | Hole Size | Casing Size      | Length                                                                                                                                                                 | Weight  | Grade & Thread                                                             | Max Mud Wt.                                                                                                                                                      | Cement  | Sacks    | Yield | Weight |
| Cond                                                                                                                                                 | 17.5      | 13.375           | 0 - 500                                                                                                                                                                | 54.5    | J-55 ST&C                                                                  | 0.0                                                                                                                                                              | Class G | 637      | 1.15  | 15.8   |
| Surf                                                                                                                                                 | 12.25     | 9.625            | 0 - 4000                                                                                                                                                               | 40.0    | N-80 LT&C                                                                  | 10.5                                                                                                                                                             | Type V  | 657      | 2.36  | 12.0   |
|                                                                                                                                                      |           |                  |                                                                                                                                                                        |         |                                                                            |                                                                                                                                                                  | Class G | 375      | 1.3   | 14.3   |
| I1                                                                                                                                                   | 8.75      | 7                | 0 - 9650                                                                                                                                                               | 29.0    | HCP-110 LT&C                                                               | 10.1                                                                                                                                                             | Class G | 435      | 1.91  | 12.5   |
|                                                                                                                                                      |           |                  |                                                                                                                                                                        |         |                                                                            |                                                                                                                                                                  | Class G | 220      | 1.64  | 13.0   |
| L1                                                                                                                                                   | 6.125     | 5                | 9450 - 13900                                                                                                                                                           | 18.0    | HCP-110 LT&C                                                               | 13.7                                                                                                                                                             | Class G | 263      | 1.47  | 14.2   |
| <b>ATTACHMENTS</b>                                                                                                                                   |           |                  |                                                                                                                                                                        |         |                                                                            |                                                                                                                                                                  |         |          |       |        |
| <b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>                                          |           |                  |                                                                                                                                                                        |         |                                                                            |                                                                                                                                                                  |         |          |       |        |
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER                                                       |           |                  |                                                                                                                                                                        |         | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                 |                                                                                                                                                                  |         |          |       |        |
| <input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)                                                  |           |                  |                                                                                                                                                                        |         | <input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER |                                                                                                                                                                  |         |          |       |        |
| <input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)                                                          |           |                  |                                                                                                                                                                        |         | <input checked="" type="checkbox"/> TOPOGRAPHICAL MAP                      |                                                                                                                                                                  |         |          |       |        |
| NAME Maria S. Gomez                                                                                                                                  |           |                  | TITLE Principal Regulatory Analyst                                                                                                                                     |         |                                                                            | PHONE 713 997-5038                                                                                                                                               |         |          |       |        |
| SIGNATURE                                                                                                                                            |           |                  | DATE 10/22/2015                                                                                                                                                        |         |                                                                            | EMAIL maria.gomez@epenergy.com                                                                                                                                   |         |          |       |        |
| API NUMBER ASSIGNED<br>43047554770000                                                                                                                |           |                  | APPROVAL<br><br>Permit Manager                                                     |         |                                                                            |                                                                                                                                                                  |         |          |       |        |

**Murray 3-27A1E  
Sec. 27, T1S, R1E  
UINTAH COUNTY, UT**

**EP ENERGY E&P COMPANY, L.P.**

**DRILLING PROGRAM**

**1. Estimated Tops of Important Geologic Markers**

| <u>Formation</u>    | <u>Depth</u> |
|---------------------|--------------|
| Green River (GRRV)  | 5,126' TVD   |
| Green River (GRTN1) | 6,584' TVD   |
| Mahogany Bench      | 7,262' TVD   |
| L. Green River      | 8,489' TVD   |
| Wasatch             | 9,549' TVD   |
| T.D. (Permit)       | 13,900' TVD  |

**2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:**

| <u>Substance</u> | <u>Formation</u>    | <u>Depth</u> |
|------------------|---------------------|--------------|
|                  | Green River (GRRV)  | 5,126' TVD   |
|                  | Green River (GRTN1) | 6,584' TVD   |
|                  | Mahogany Bench      | 7,262' TVD   |
| Oil              | L. Green River      | 8,489' TVD   |
| Oil              | Wasatch             | 9,549' TVD   |

**3. Pressure Control Equipment: (Schematic Attached)**

A 5.0" by 20.0" Diverter System on structural pipe from surface to 500' MD/TVD. A 5.0" by 13-3/8" Diverter System w/ rotating head from 500' MD/TVD to 4,000' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, 10M annular, flex rams, blind rams, mud cross & single w/ flex ram used from 4,000' MD/TVD to 9,650' MD/TVD. A 10M BOP stack w/ rotating head, 10M annular, flex rams, blind rams, mud cross & single w/ flex ram from 9,650' MD/TVD to TD (13,900' MD/TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

**OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:**

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M

psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, 10M annular, flex rams, blind rams, mud cross & single w/ flex ram from surface shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

**Statement on Accumulator System and Location of Hydraulic Controls:**

Precision 406 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

**Auxiliary Equipment:**

- A) Pason Gas Monitoring 500' - TD
- B) Mud logger with gas monitor – 4,000' to TD
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

**4. Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

**5. Drilling Fluids Program:**

Proposed Mud Program:

| Interval     | Type | Mud Weight  |
|--------------|------|-------------|
| Surface      | WBM  | 10.5        |
| Intermediate | WBM  | 9.5 – 10.1  |
| Production   | WBM  | 11.0 – 13.7 |

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 4,000' MD/TVD – TD

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 13,900' TVD equals approximately 9,902 psi. This is calculated based on a 0.7124 psi/ft gradient (13.7 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 6,844 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 9,650' TVD = 7,720 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 6,844 psi.

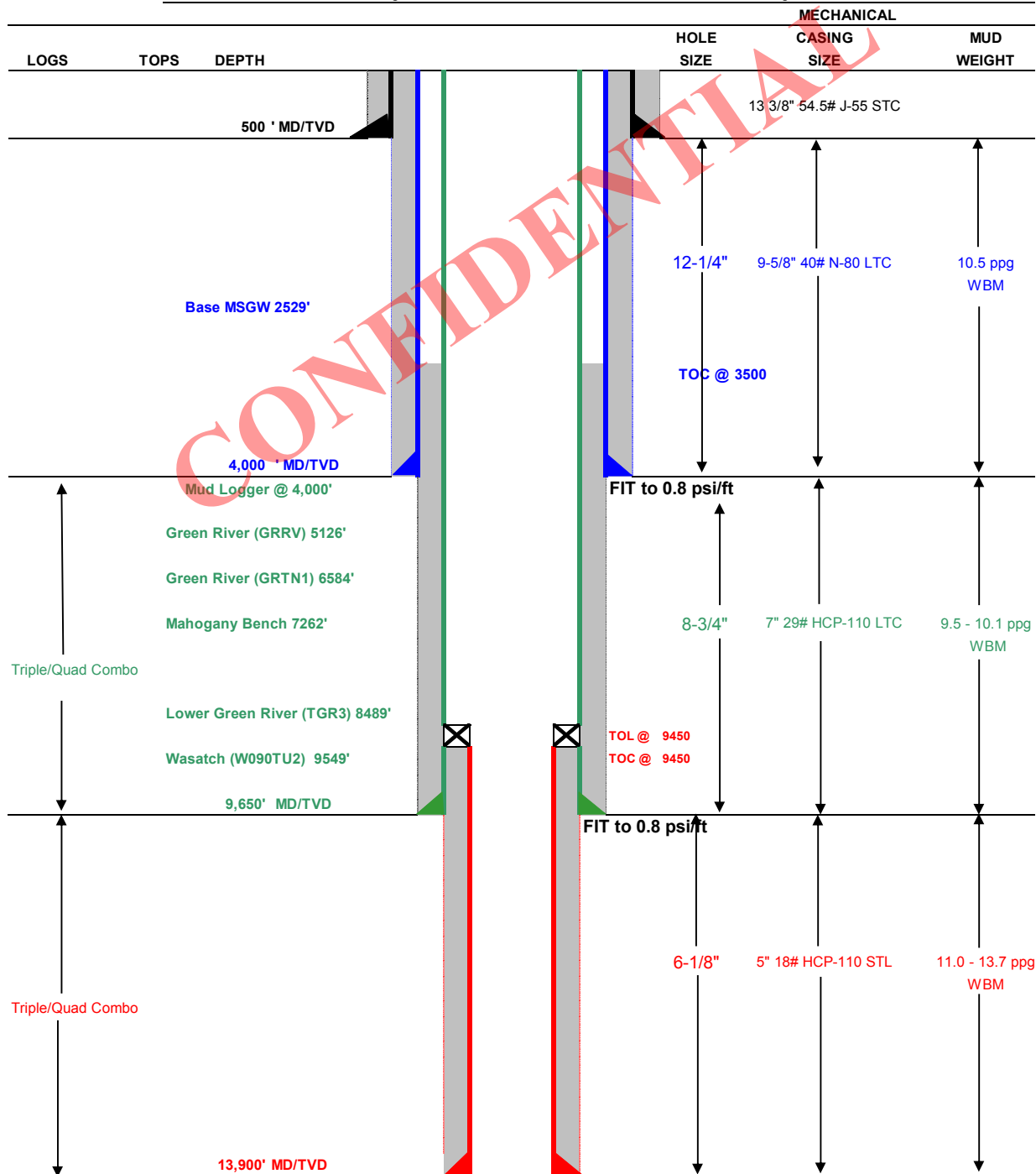
8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**





## Drilling Schematic

|                                                                                                                                                                                                                                                                                 |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Company Name:</b> EP ENERGY                                                                                                                                                                                                                                                  | <b>Date:</b> October 1, 2015 |
| <b>Well Name:</b> Murray 3-27A1E                                                                                                                                                                                                                                                | <b>TD:</b> 13,900'           |
| <b>Field, County, State:</b> Altamont, Uintah County, Utah                                                                                                                                                                                                                      | <b>AFE #:</b> TBD            |
| <b>Surface Location:</b> Sec 27 T1S R1E 724' FNL 1962' FWL                                                                                                                                                                                                                      | <b>BHL:</b> Straight Hole    |
| <b>Objective Zone(s):</b> Green River, Wasatch                                                                                                                                                                                                                                  | <b>Elevation:</b> 5312       |
| <b>Rig:</b> Precision 406                                                                                                                                                                                                                                                       | <b>Spud (est.):</b> TBD      |
| <b>BOPE Info:</b> 5.0 x 13 3/8 Diverter Sytem w/ rotating head from 500' to 4,000' 11 10M BOP stack w/ rotating head & 10M annular from 4,000' to 9,650' 11 10M BOP stack w/rotating head, 10M annular, flex rams, blind rams, mud cross & single w/ flex ram from 9,650' to TD |                              |



**DRILLING PROGRAM**

| CASING PROGRAM   | SIZE    | INTERVAL |         | WT.   | GR.     | CPLG. | BURST  | COLLAPSE | TENSION |
|------------------|---------|----------|---------|-------|---------|-------|--------|----------|---------|
| CONDUCTOR        | 13 3/8" | 0'       | 500'    | 54.5  | J-55    | STC   | 2,740  | 1,130    | 514     |
| SURFACE          | 9-5/8"  | 0'       | 4,000'  | 40.00 | N-80    | LTC   | 5,750  | 3,090    | 737     |
| INTERMEDIATE     | 7"      | 0'       | 9,650'  | 29.00 | HCP-110 | LTC   | 11,220 | 9,750    | 797     |
| PRODUCTION LINER | 5"      | 9,450'   | 13,900' | 18.00 | HCP-110 | STL   | 13,940 | 15,450   | 495     |

| CEMENT PROGRAM   |      | FT. OF FILL | DESCRIPTION                                                                                                                                                                  | SACKS | EXCESS | WEIGHT   | YIELD |
|------------------|------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|----------|-------|
| CONDUCTOR        |      | 500'        | Class G + 3% CACL2                                                                                                                                                           | 637   | 100%   | 15.8 ppg | 1.15  |
| SURFACE          | Lead | 3,000'      | EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2% Econolite + 0.125 Poly-E-Flake                                              | 657   | 75%    | 12.0 ppg | 2.36  |
|                  | Tail | 1,000'      | HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.3% D-AIR 5000                | 375   | 50%    | 14.3 ppg | 1.30  |
| INTERMEDIATE     | Lead | 4,350'      | EXTENDACEM SYSTEM: Class G Cement + 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.75% HR-5 + 0.3% Super CBL + 0.2% Halad-322 + 0.125 lb/sk Poly-E-Flake                  | 435   | 30%    | 12.5 ppg | 1.91  |
|                  | Tail | 1,800'      | EXPANDACEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.3% HR-5                             | 220   | 30%    | 13.0 ppg | 1.64  |
| PRODUCTION LINER |      | 4,450'      | EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL + 0.55% SCR-100 + 0.3% Halad-413 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SS-200 + 0.10% SA-1015 | 263   | 25%    | 14.20    | 1.47  |

| FLOAT EQUIPMENT & CENTRALIZERS |                                                                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONDUCTOR                      | PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.                                     |
| SURFACE                        | PDC drillable guide shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter. |
| INTERMEDIATE                   | PDC drillable 10M, P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at +/-8,350'.                                                       |
| LINER                          | Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.                                                                                             |

PROJECT ENGINEER(S): Brent Baker 713-997-3323

MANAGER: Sergio Mares

**EP ENERGY**

# MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T.1S, R.1E, U.S.B.&M.  
UINTAH COUNTY, UTAH



Photo: View of location stake

Camera Angle: Southeasterly



Photo: View from beginning of proposed access

Camera Angle: Southwesterly



**OUTLAW  
ENGINEERING INC.**

P.O. BOX 1800  
ROOSEVELT, UTAH 84066  
(435) 232-4321

PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW  
ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES.

## Location Photos

|           |         |
|-----------|---------|
| VERSION:  | V2      |
| SURVEYED: | 6-20-14 |

DEC 9, 2014  
AUTHOR: BWH

**PHOTO**

RECEIVED: October 22, 2015



**MURRAY 3-27A1E**  
**WELL LOCATION: NE/NW SECTION 27, T.1S, R.1E. U.S.B.&M.**  
**UINTAH COUNTY, UTAH**

PROCEED IN AN EASTERLY DIRECTION FROM ROOSEVELT, UT ON HIGHWAY 40 APPROXIMATELY 5.1 MILES TO THE JUNCTION OF THIS ROAD AND WHITE ROCKS HIGHWAY TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY THEN WESTERLY THEN NORTHERLY DIRECTION APPROXIMATELY 7.1 MILES TO THE JUNCTION OF THIS ROAD AND LEETOWN ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN UNNAMED ACCESS ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY THEN EASTERLY THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THE ROAD AND AN UNNAMED ACCESS ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND THE PROPOSED ACCESS ROAD TO THE SOUTHWEST; TURN RIGHT AND FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 59 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM BLUEBELL, UTAH TO THE PROPOSED LOCATION IS APPROXIMATELY 15.3 MILES.



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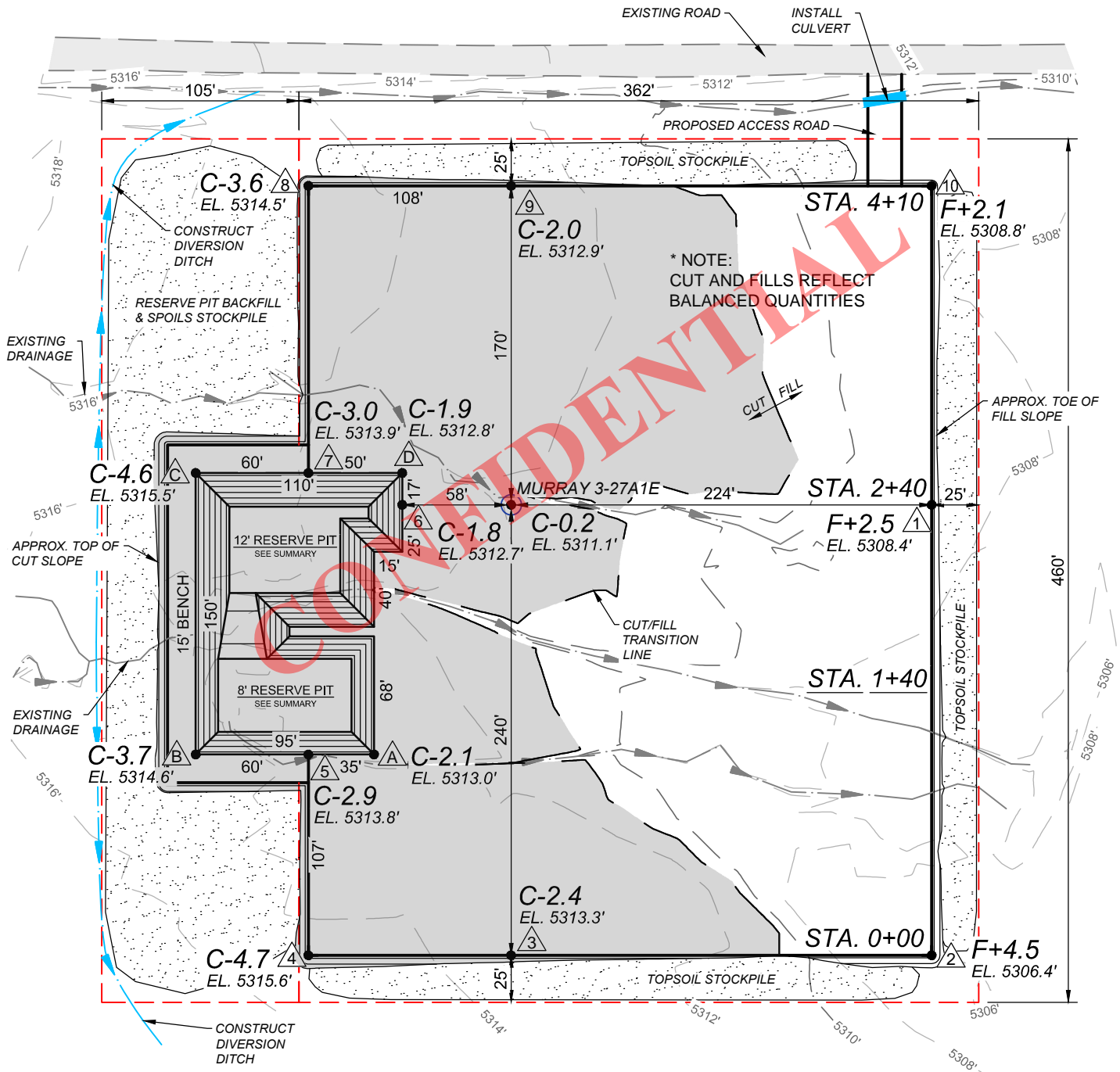
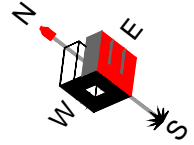




# PROPOSED LOCATION LAYOUT

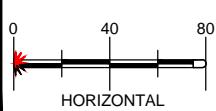
## MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T1S, R1E, U.S.B.&M.  
UINTAH COUNTY, UTAH



|  |                       |  |                            |
|--|-----------------------|--|----------------------------|
|  | EXISTING CONTOURS     |  | CORNER NUMBER              |
|  | PROPOSED CONTOURS     |  | CUT/FILL NUMBER            |
|  | LIMITS OF DISTURBANCE |  | EL. 5860.8' EXISTING GRADE |
|  | EXISTING FENCE        |  | PROPOSED WELL LOCATION     |
|  | DIVERSION DITCH       |  |                            |

**OUTLAW ENGINEERING INC.**  
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**SUMMARY**  
EXISTING GRADE @ CENTER OF WELL= 5311.1'  
FINISH GRADE ELEVATION = 5310.9'  
CUT SLOPES = 1.5 : 1  
FILL SLOPES = 1.5 : 1  
TOTAL WELL PAD AREA = 3.44 ACRES  
TOTAL WELL PAD DISTURBANCE AREA = 4.93 ACRES

\*RESERVE PIT\*  
8' & 12' DEEP, SEE ABOVE  
SLOPE 1.5:1  
PIT VOL. = 3,890 CY

### PROPOSED LOCATION LAYOUT

#### MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T1S, R1E, U.S.B.&M.  
UINTAH COUNTY, UTAH



**PAD/PIT  
GRADING**

DECEMBER 24, 2014  
SCALE: 1" = 80'  
DESIGN: MARFII DRAWN: JMH

SHEET NO.  
**2**

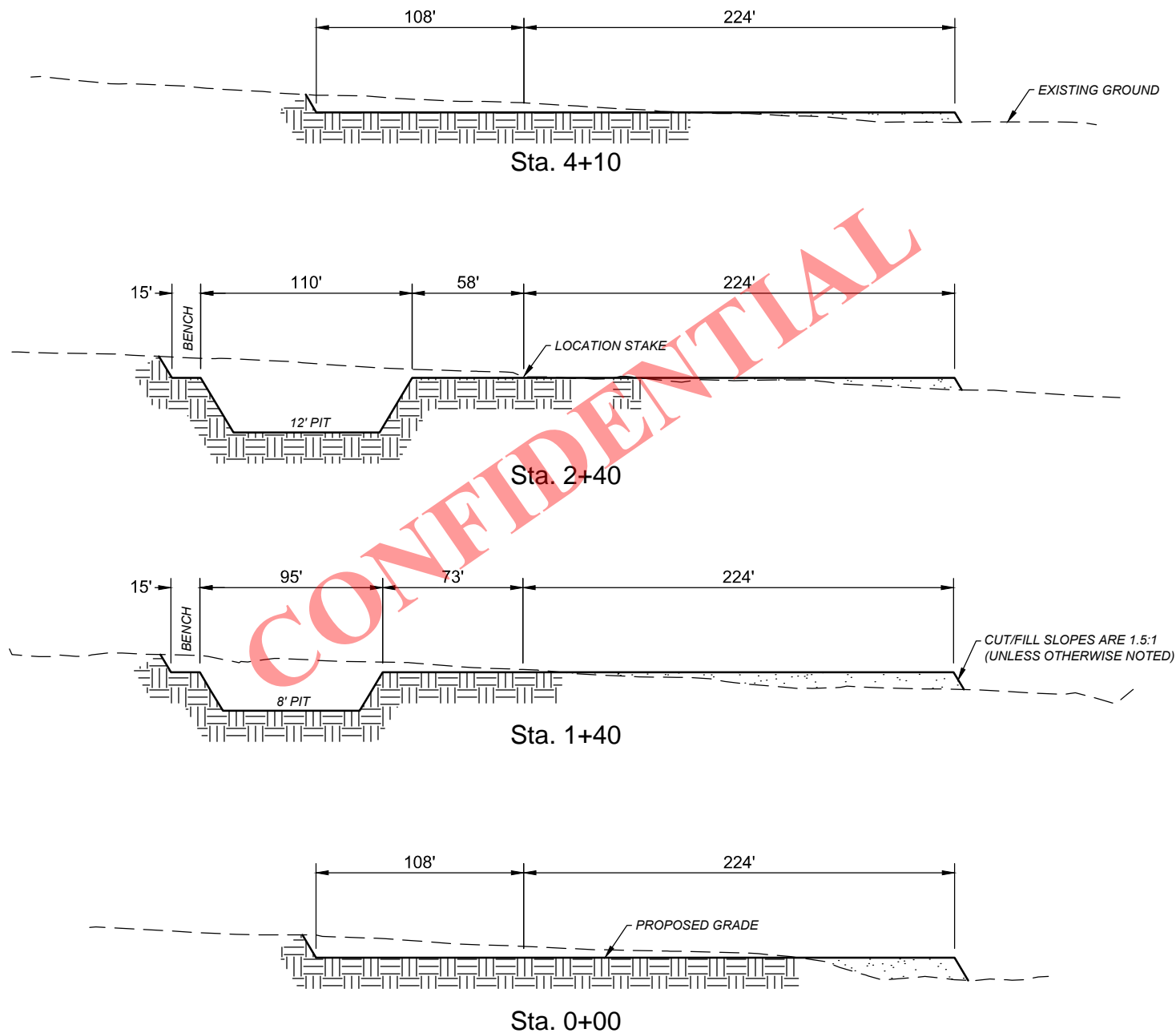
RECEIVED: October 22, 2015



## CROSS SECTIONS

### MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T1S, R1E, U.S.B.&M.  
UINTAH COUNTY, UTAH



#### LEGEND

--- EXISTING CONTOURS  
— PROPOSED CONTOURS



CUT  
FILL

#### ESTIMATED EARTHWORK QUANTITIES

\* NO SHRINK OR SWELL FACTORS HAVE BEEN USED  
(QUANTITIES EXPRESSED IN CUBIC YARDS)

| ITEM            | CUT   | FILL  | EXCESS/<br>IMPORT | 6" T.S.* |
|-----------------|-------|-------|-------------------|----------|
| PAD             | 4,800 | 4,800 | 0                 | 2,910    |
| RAISED PAD 1.5' | 1,290 | 9,960 | 8,670             | 2,900    |
| PIT             | 3,890 | -     | 0                 | -        |

\*(T.S.) = TOPSOIL STRIPPING

#### CROSS SECTIONS

### MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T1S, R1E, U.S.B.&M.  
UINTAH COUNTY, UTAH



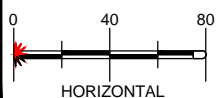
**CROSS  
SECTIONS**

DECEMBER 24, 2014  
SCALE: 1" = 80'  
DESIGN: MA,RFII DRAWN: JMH

SHEET NO.  
**3**



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(435) 232-4321

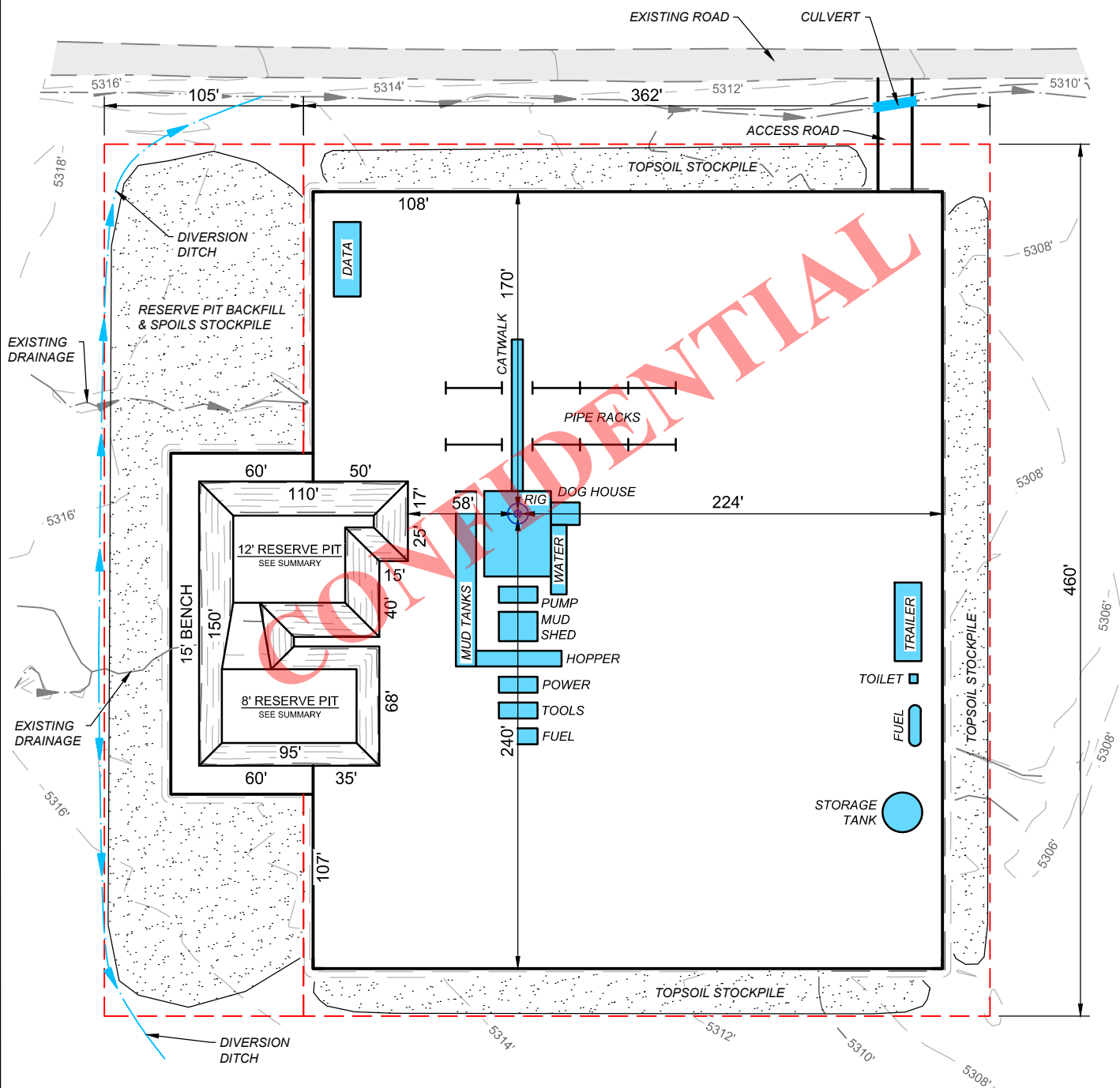
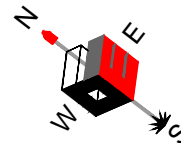


RECEIVED: October 22, 2015



## RIG LAYOUT MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T1S, R1E, U.S.B.&M.  
UINTAH COUNTY, UTAH

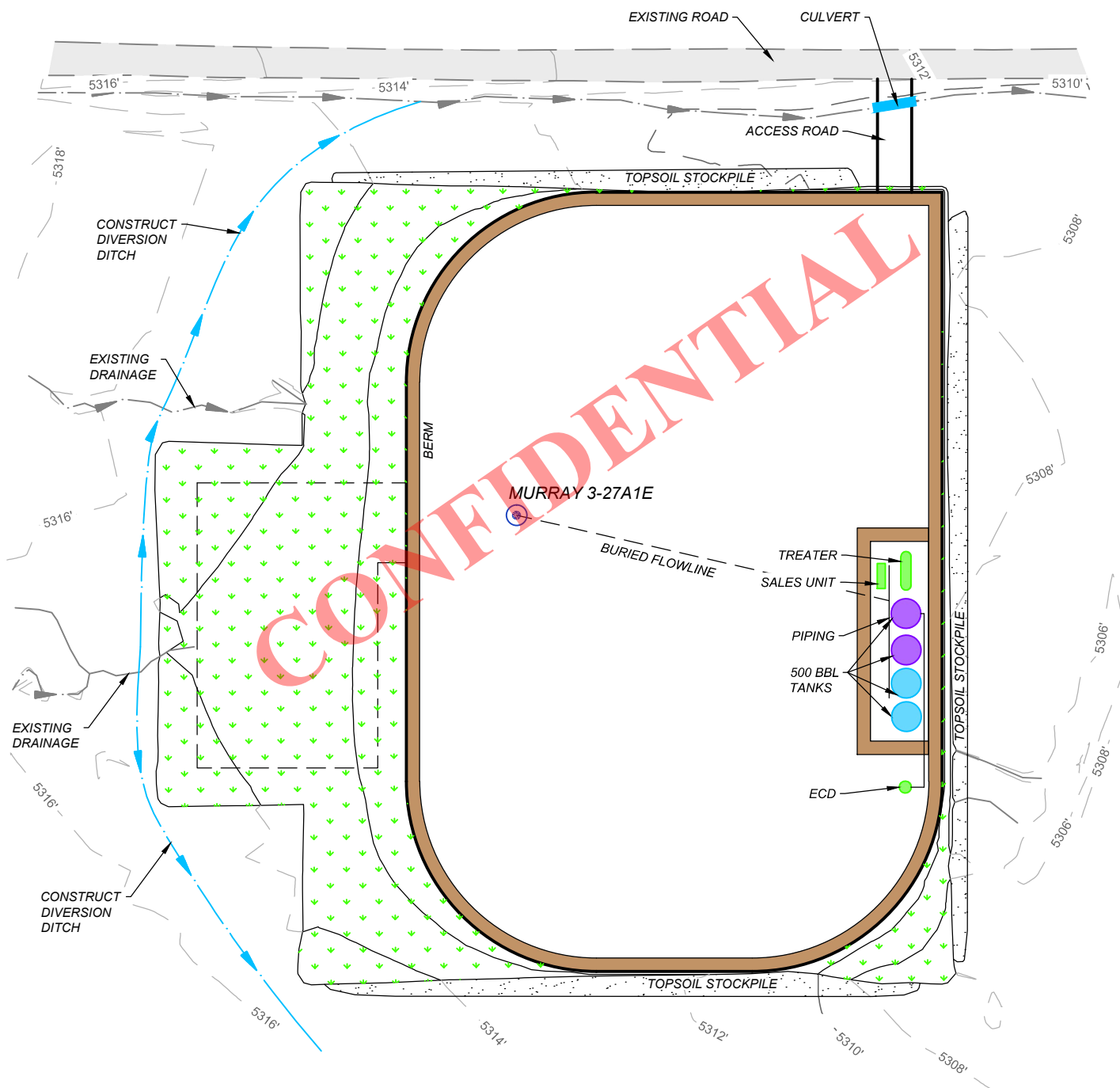
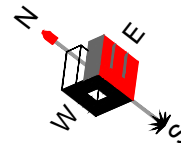




# PRODUCTION FACILITY LAYOUT

## MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T1S, R1E, U.S.B.&M.  
UINTAH COUNTY, UTAH



### LEGEND

|  |                       |  |                |
|--|-----------------------|--|----------------|
|  | EXISTING CONTOURS     |  | WELL LOCATION  |
|  | PROPOSED CONTOURS     |  | RECLAIMED AREA |
|  | LIMITS OF DISTURBANCE |  |                |
|  | EXISTING FENCE        |  |                |
|  | DIVERSION DITCH       |  |                |
|  | BERM                  |  |                |

### SUMMARY

APPROX UN-RECLAIMED AREA = 2.51 ACRES  
APPROX RECLAIMED AREA = 0.93 ACRES

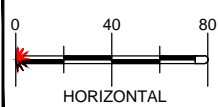
### PRODUCTION FACILITY LAYOUT

## MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T1S, R1E, U.S.B.&M.  
UINTAH COUNTY, UTAH



**OUTLAW**  
ENGINEERING INC.  
P.O. BOX 1800  
ROOSEVELT, UTAH 84066  
(435) 232-4321



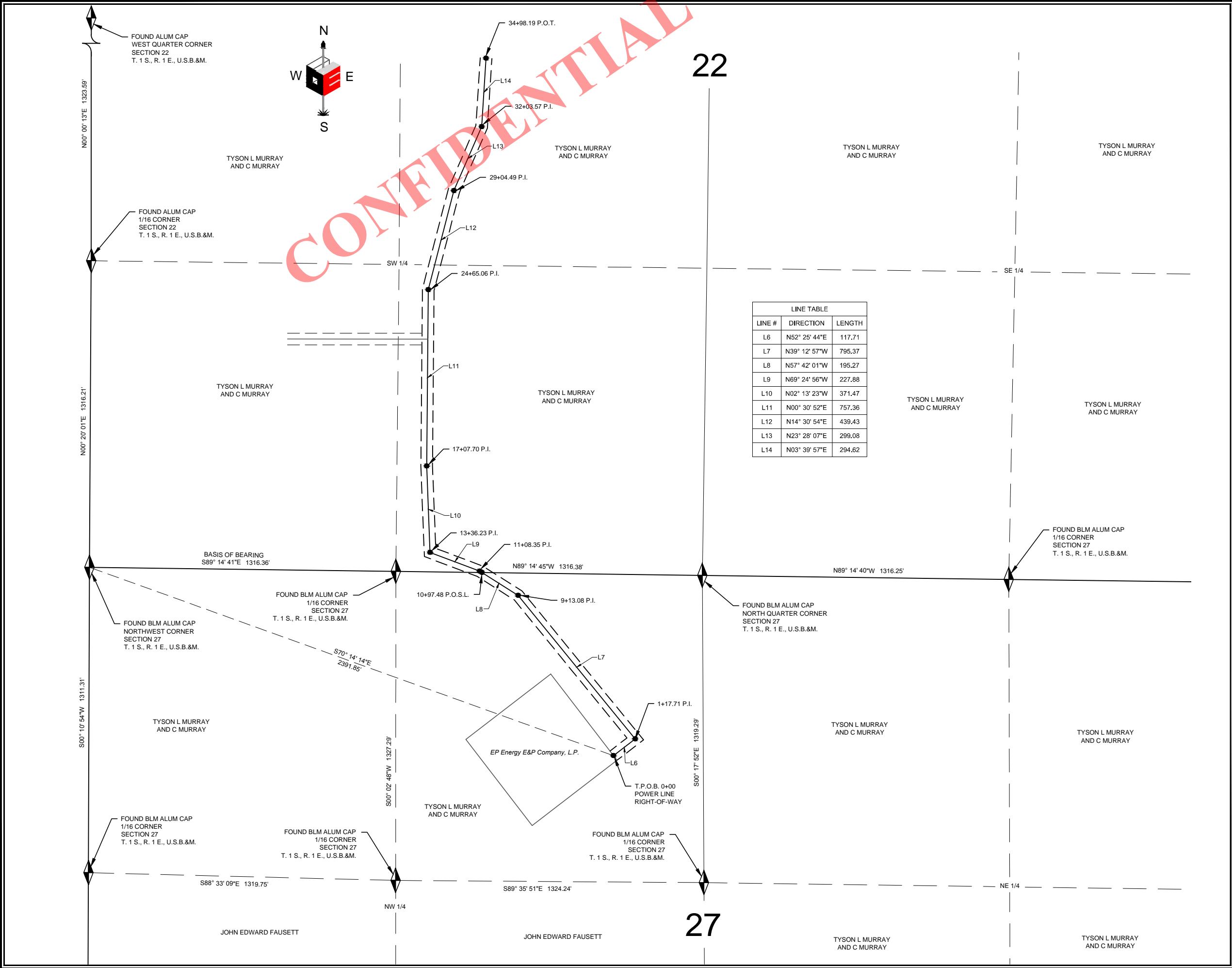
PRODUCTION  
LAYOUT

DECEMBER 24, 2014  
SCALE: 1" = 80'  
DESIGN: MA,RFII DRAWN: JMH

SHEET NO.  
**5**

RECEIVED: October 22, 2015





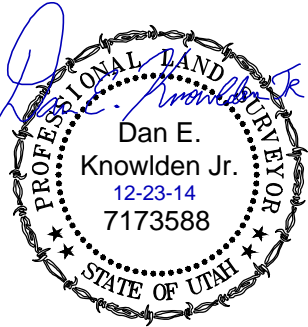
EP ENERGY E&P COMPANY, L.P.  
POWER LINE CORRIDOR RIGHT-OF-WAY SURVEY ON  
FEE LANDS FOR

TYSON L MURRAY AND C MURRAY

LOCATED IN SECTIONS 22 & 27 TOWNSHIP 1 S., RANGE 1 E.,  
U.S.B.&M.  
UINTAH COUNTY, UTAH

SURVEYOR'S CERTIFICATE

I, DAN E. KNOWLDEN JR. DO HEREBY CERTIFY THAT I AM A REGISTERED LAND  
SURVEYOR AND THAT I HOLD CERTIFICATE NO. 7173588 AS PRESCRIBED UNDER  
THE LAWS OF THE STATE OF UTAH AND THAT A SURVEY OF THE DESCRIBED  
PROPERTY HEREIN WAS PERFORMED UNDER MY DIRECTION.



POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

LOCATED IN SECTIONS 22 & 27, TOWNSHIP 1 SOUTH, RANGE 1 EAST OF THE UTAH  
SPECIAL BASE AND MERIDIAN. RIGHT-OF-WAY CORRIDOR IS 50.00 FEET WIDE, 25.00 FEET  
ON EACH SIDE OF THE CENTERLINE. SAID CENTERLINE IS MORE PARTICULARLY  
DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SECTION 27, TOWNSHIP 1 SOUTH, RANGE  
1 EAST OF THE UTAH SPECIAL BASE AND MERIDIAN AND RUNNING THENCE SOUTH 70°  
14' 14" EAST 2391.85 FEET, TO THE TRUE POINT OF BEGINNING; THENCE NORTH 52° 25' 44"  
EAST 117.71 FEET; THENCE NORTH 39° 12' 57" WEST 795.37 FEET; THENCE NORTH 57° 42'  
01" WEST 195.27 FEET; THENCE NORTH 69° 24' 56" WEST 227.88 FEET; THENCE NORTH 02°  
13' 23" WEST 371.47 FEET; THENCE NORTH 00° 30' 52" EAST 757.36 FEET; THENCE NORTH  
14° 30' 54" EAST 439.43 FEET; THENCE NORTH 23° 28' 07" EAST 299.08 FEET; THENCE NORTH  
03° 39' 57" EAST 294.62 FEET, TO THE POINT OF TERMINUS. SAID RIGHT-OF-WAY BEING  
3,498.19 FEET IN LENGTH, THE SIDE LINES OF WHICH BEING SHORTENED OR ELONGATED  
TO MEET THE RIGHT-OF-WAY BOUNDARY AND SURFACE USE AREA BOUNDARY. THE BASIS  
OF BEARING FOR THIS DESCRIPTION IS SOUTH 89° 14' 41" EAST BETWEEN THE  
NORTHWEST CORNER AND THE NORTHEAST CORNER OF THE NW 1/4 OF SAID  
SECTION 27.

RIGHT-OF-WAY LENGTH

TYSON L MURRAY AND C MURRAY = 3,498.19 FEET OR 212.01 RODS, MORE OR LESS

LEGEND

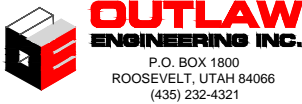
- FOUND SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE

SCALE: 1" = 400'  
11X17 SHEET

REVIEWED: DEK DRAWN: RLH

SHEET  
RIGHT-OF-WAY PLAT

EP ENERGY



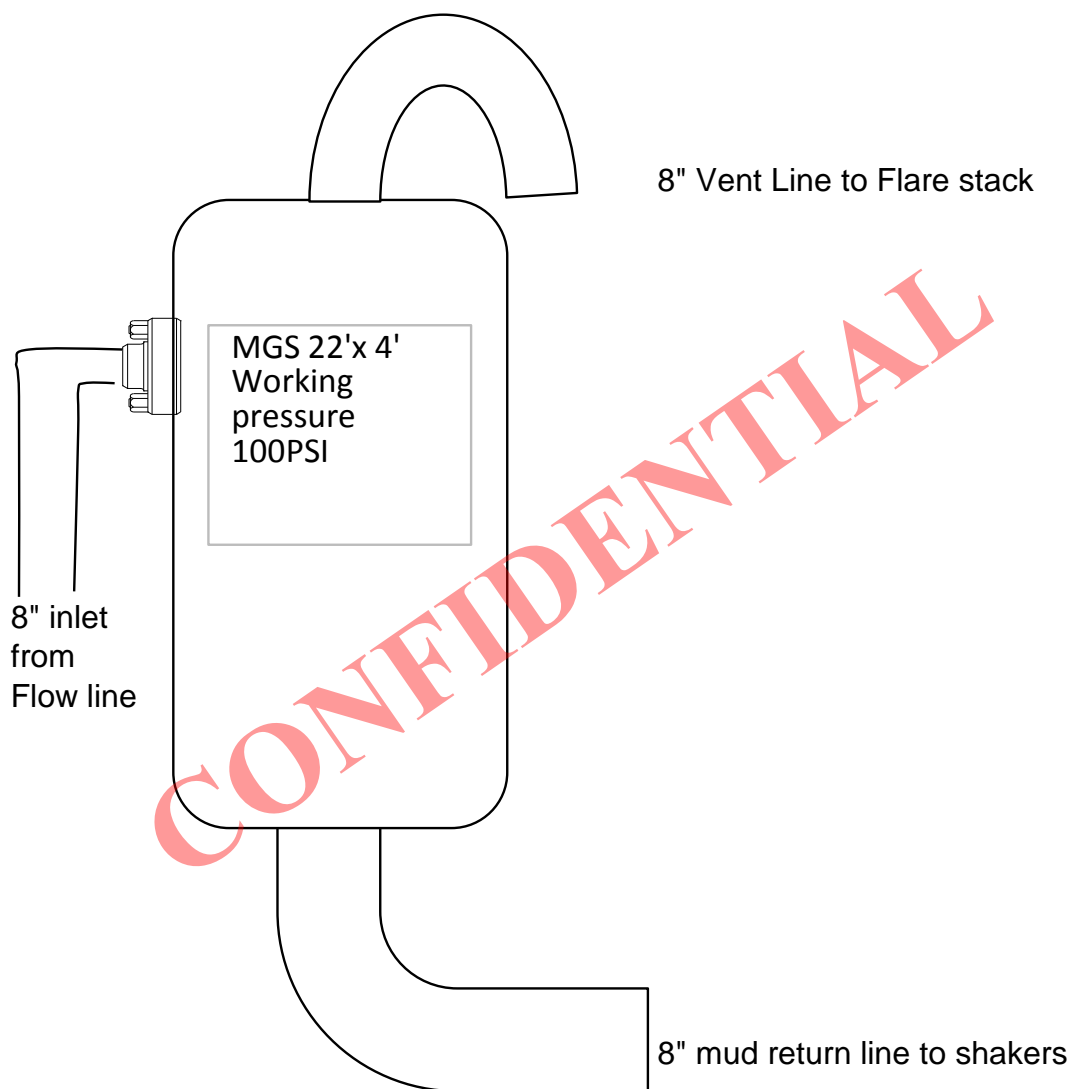
PLAT NO.  
211B

DATE  
DECEMBER 23, 2014

SHEET NO.  
1 OF 1



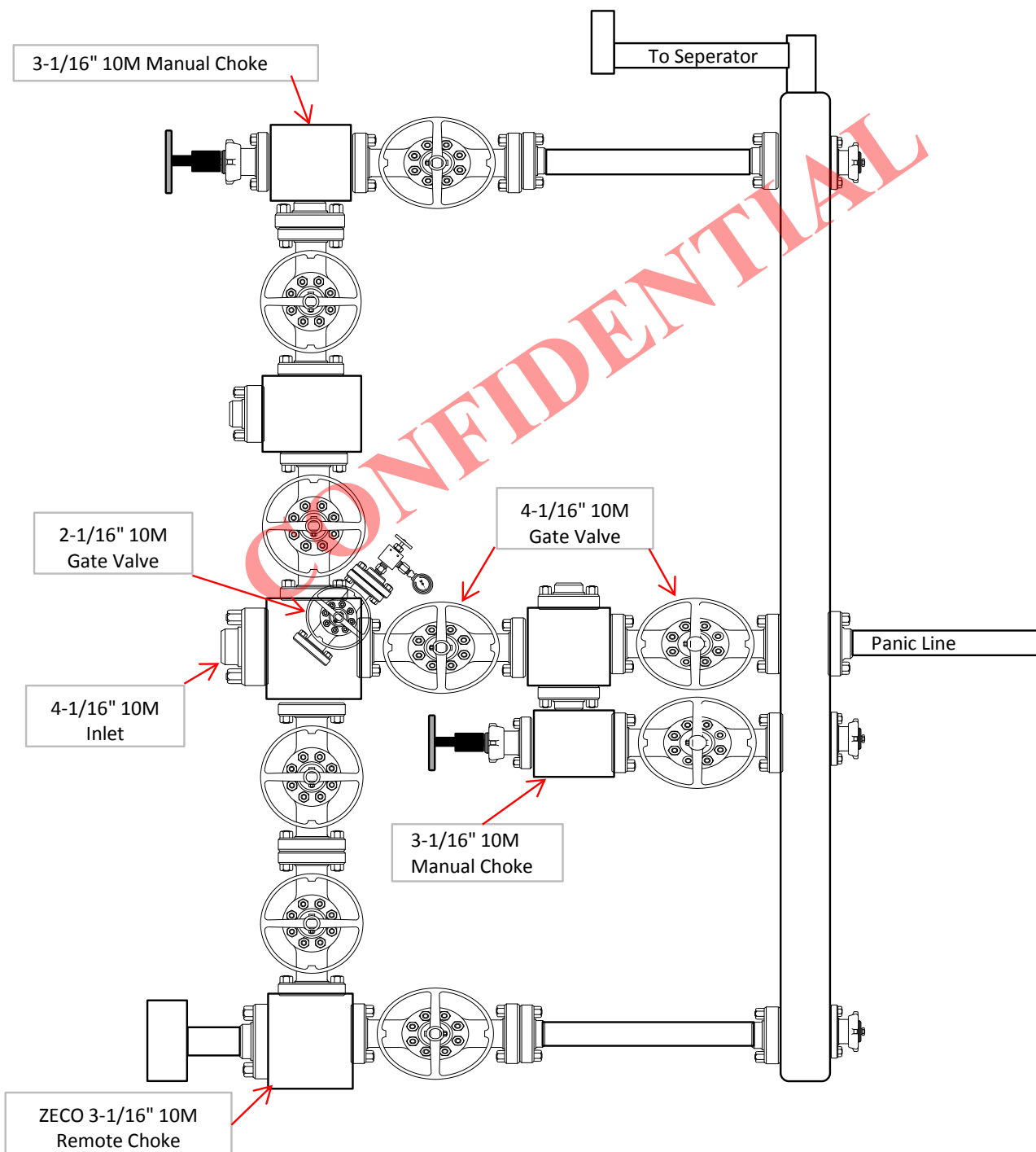
## Mud Gas Separator





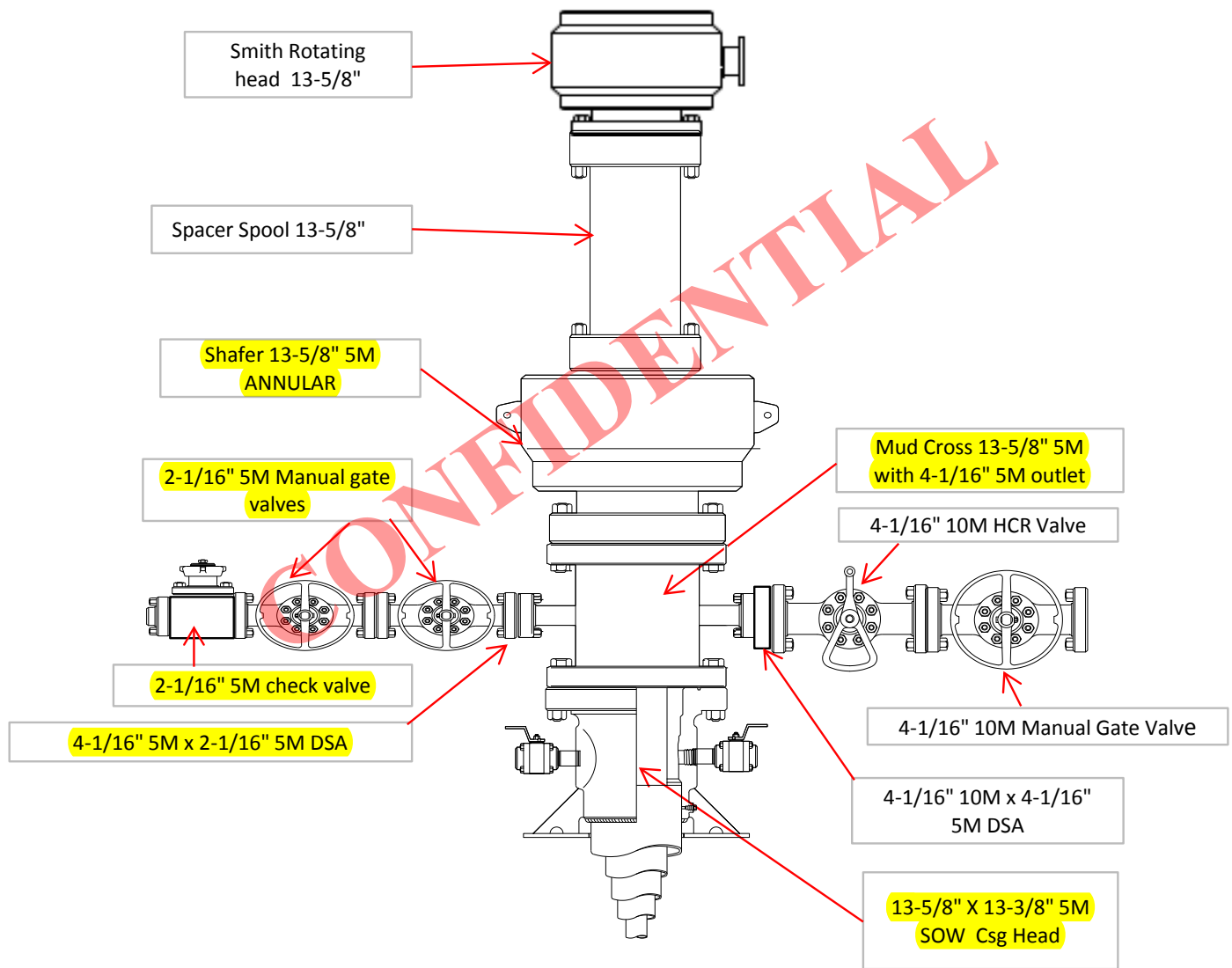
## 10M Choke Monifold Configuration

All valves on the Choke Monifold are 3-1/16" 10M except for those that are identified below.



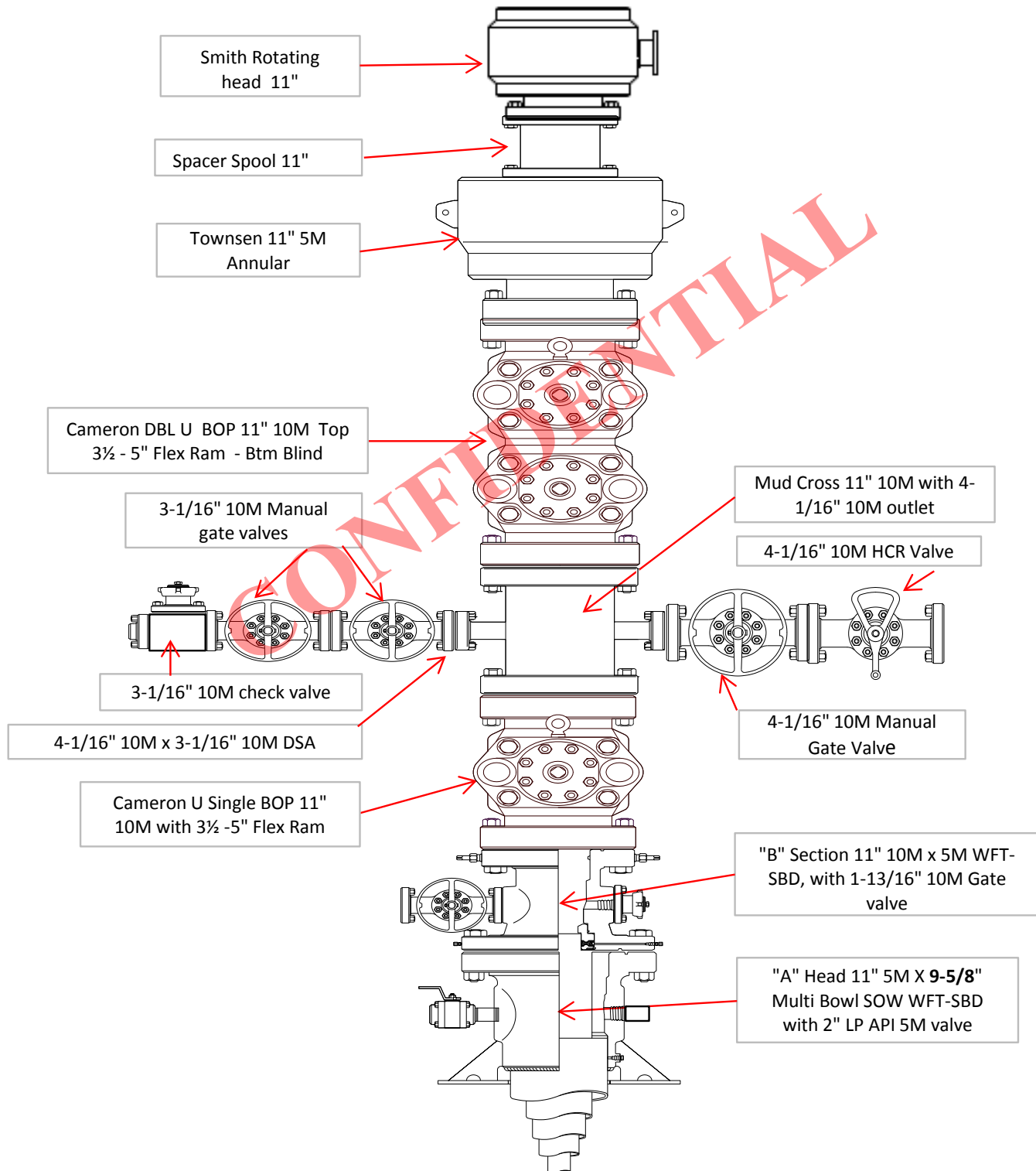


## Surface 13-5/8" 3M Diverter Configuration



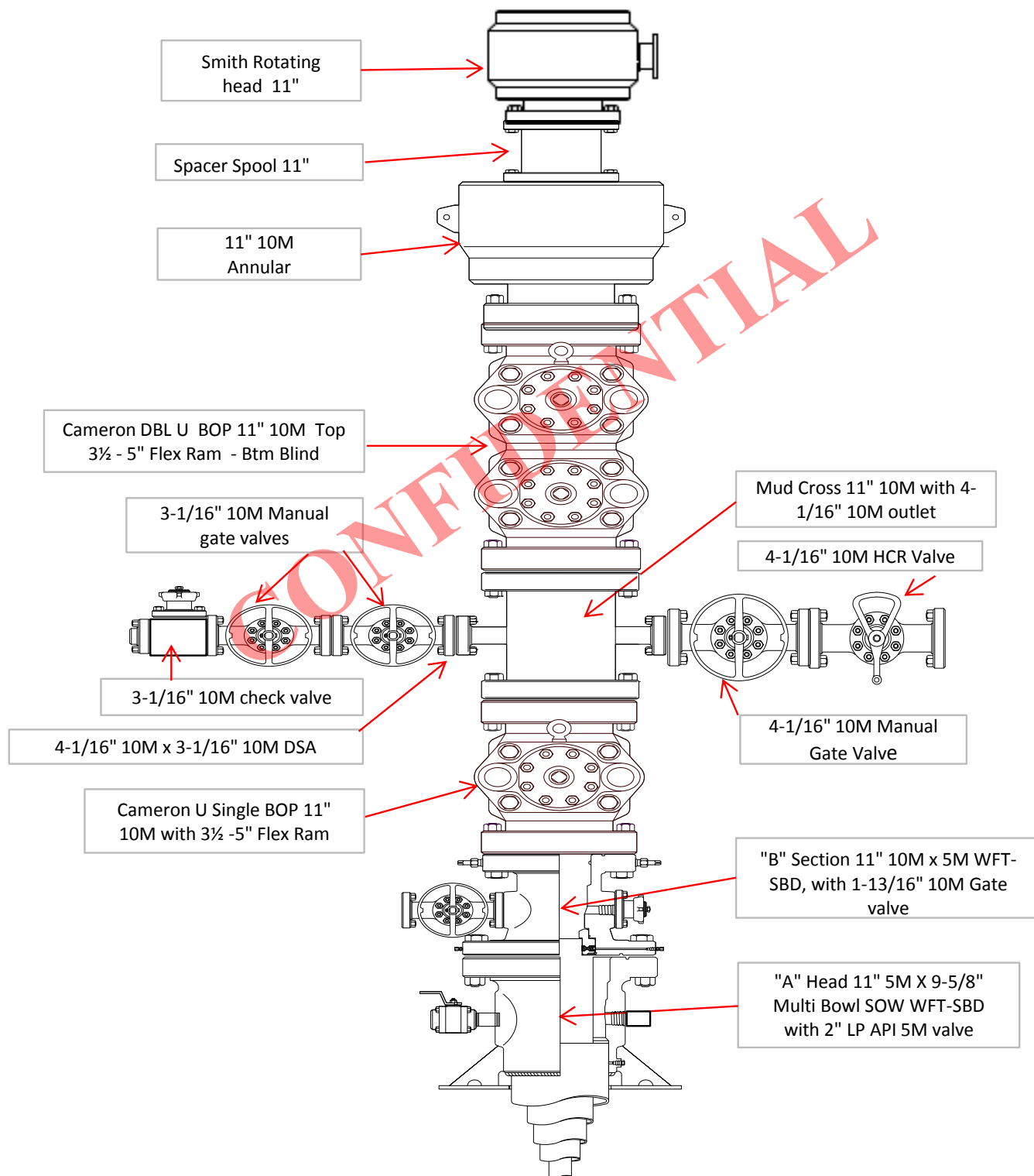


## Intermediate 11" 5M BOP Configuration





## Production 11" 10M BOP Configuration



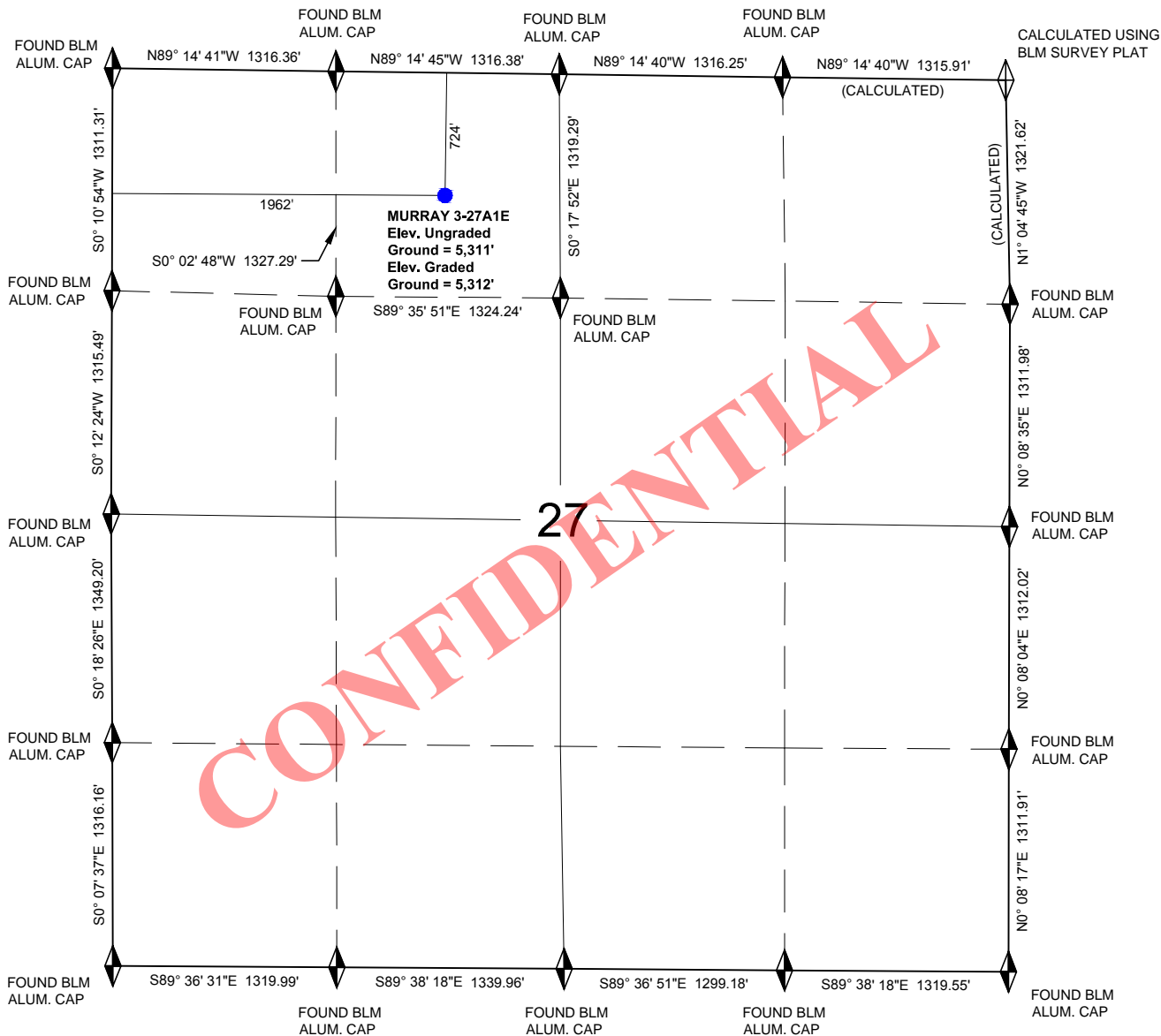


# EP ENERGY

## WELL LOCATION PLAT

### WELL: MURRAY 3-27A1E

PAD LOCATION: NE/NW, SECTION 27, T.1S, R.1E, U.S.B.&M.  
UINTAH COUNTY, UTAH



#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM THE FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

#### LEGEND

- = FOUND SECTION CORNER
- = CALC. SECTION CORNER
- = PROPOSED WELL HEAD

#### NOTES:

1. WELL FOOTAGES ARE MEASURED AT RIGHT ANGLES TO THE SECTION LINE.
2. ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
3. BEARINGS ARE DERIVED FROM G.P.S. OBSERVATIONS AND EQUIPMENT.
4. THE GENERAL LAND OFFICE G.L.O. PLAT WAS USED FOR REFERENCE

#### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 27, T.1S, R.1E, U.S.B.&M. NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK SYSTEM. SAID ELEVATION IS 5355.94 FEET.



REGISTERED LAND SURVEYOR  
REGISTRATION NO. 7173588  
STATE OF UTAH



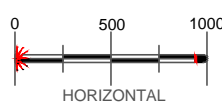
**OUTLAW  
ENGINEERING INC.**  
P.O. BOX 1800  
ROOSEVELT, UTAH 84066  
(435) 232-4321

EP ENERGY

#### WELL LOCATION PLAT

WELL: MURRAY 3-27A1E  
PAD LOCATION: NE/NW, SECTION 27,  
T.1 S., R. 1 E., U.S.B.&M.  
UINTAH COUNTY, UTAH

**NAD 83 (SURFACE LOCATION)**  
LATITUDE = 40°22'21.82941"N (40.37273)  
LONGITUDE = 109°52'17.28034"W (109.871467)  
**NAD 27 (SURFACE LOCATION)**  
LATITUDE = 40°22'21.97972"N (40.372772)  
LONGITUDE = 109°52'14.75005"W (109.870764)



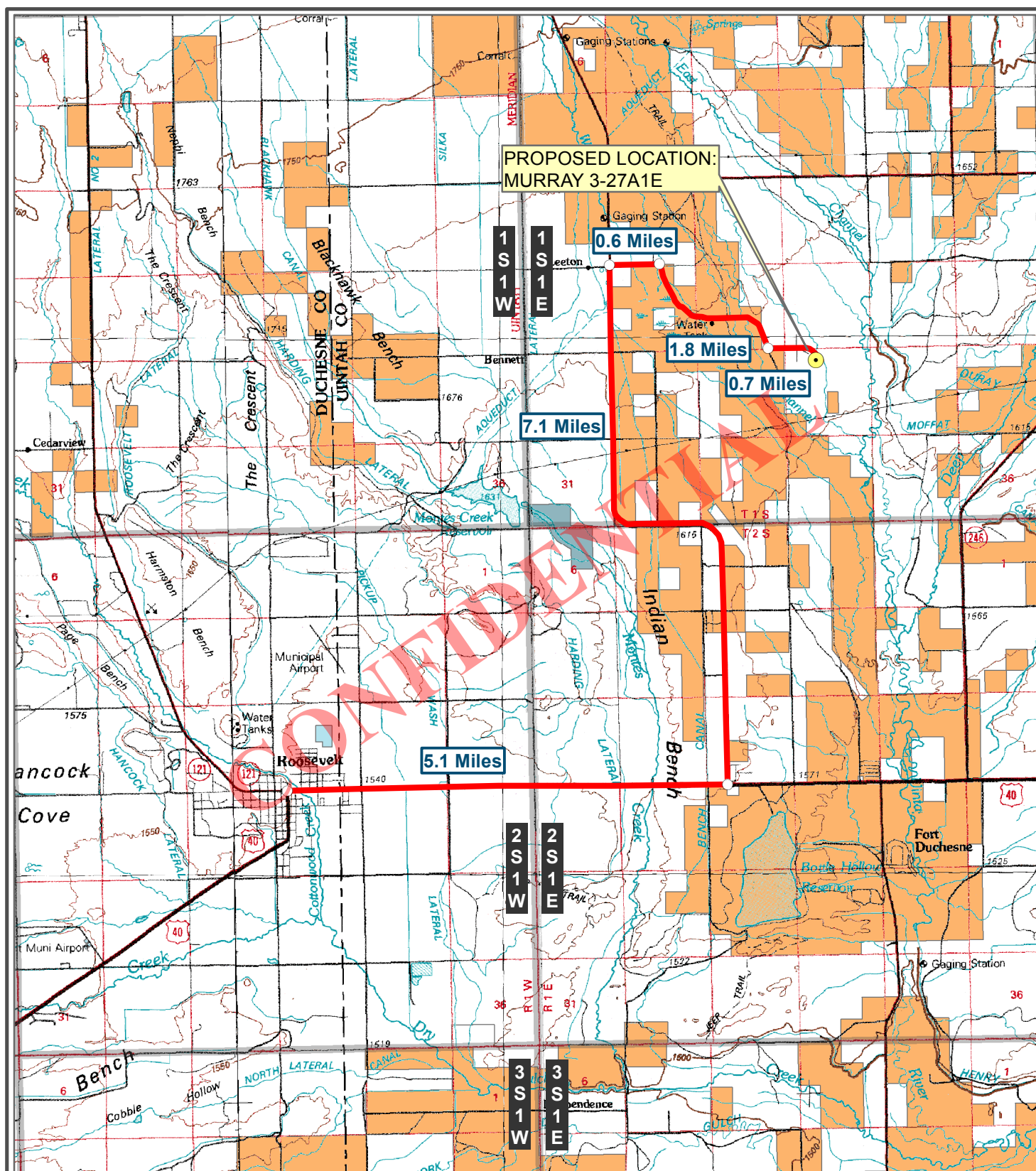
DATE SURVEYED: JUNE 19, 2014  
SURVEYED BY: CW/JD  
DRAWN: JULY 16, 2014  
DRAWN: DEK  
SCALE: 1" = 1000'

SHEET NO.

1

RECEIVED: October 22, 2015





**OUTLAW  
ENGINEERING INC.**

P.O. BOX 1800  
ROOSEVELT, UTAH 84066  
(435) 232-4321



PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES

**Site Location**

0 2,000 4,000 6,000 8,000 Feet

VERSION: **V2**  
SURVEYED: **6-20-14**

### LEGEND

- Murray 3-27A1E Site Location
- Proposed Access Road
- Existing Access Road

Federal  Private  State  Tribal

## MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T.1S, R.1E, U.S.B.&M.  
UINTAH COUNTY, UTAH

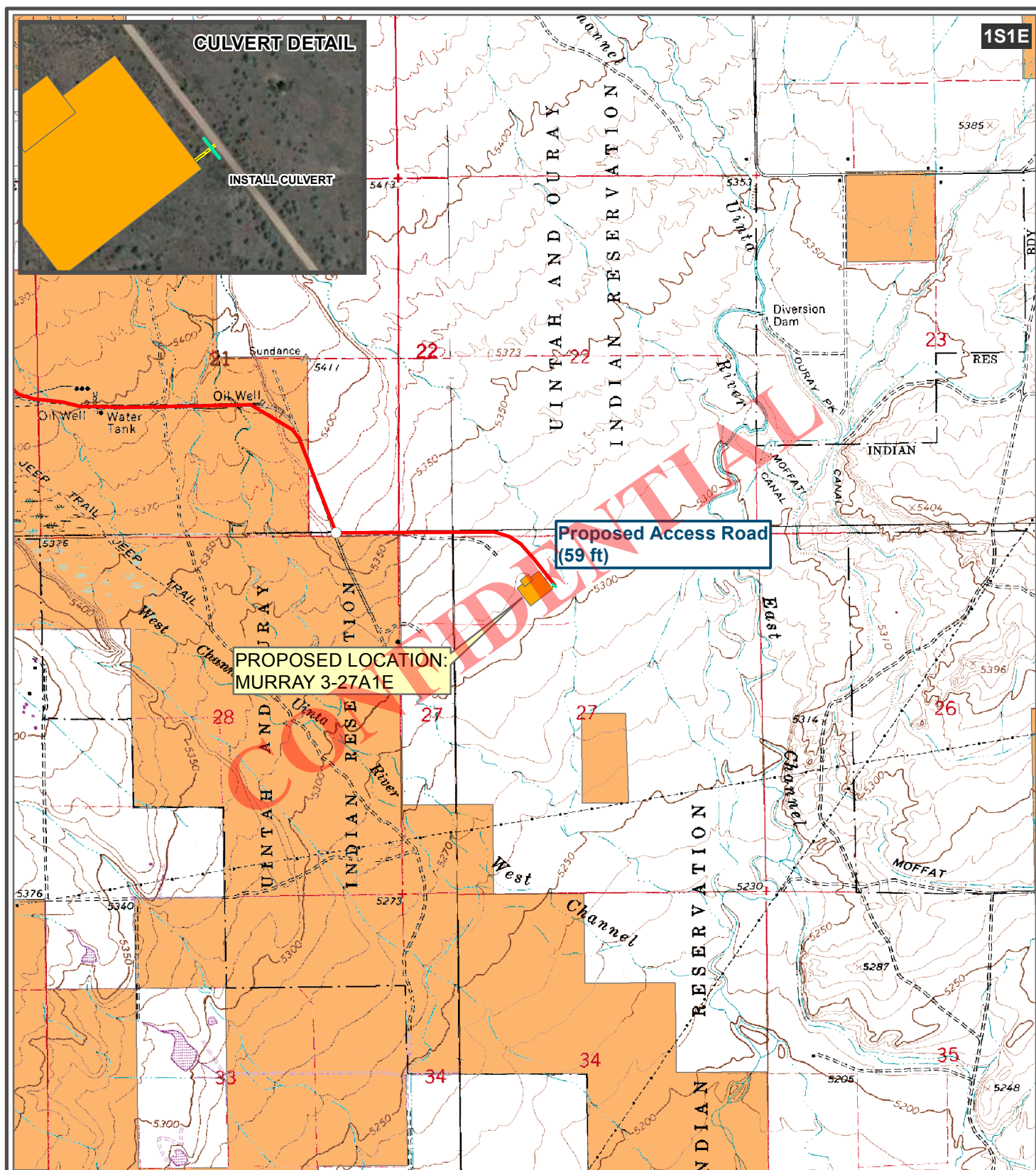
**EP ENERGY**

USGS 7.5'  
Fort Duchesne  
Quadrangle

DEC 9, 2014  
SCALE: 1" = 8,342'  
AUTHOR: BWH

SHEET  
**A**





**OUTLAW  
ENGINEERING INC.**

P.O. BOX 1800  
ROOSEVELT, UTAH 84066  
(435) 232-4321



PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES

**Proposed Access  
Road**

0 500 1,000 1,500 2,000 Feet

VERSION: **V2**  
SURVEYED: **6-20-14**

#### LEGEND

- Proposed Access Road
- Culvert Required
- Existing Access Road
- Proposed Pad

■ Federal ■ Private ■ State ■ Tribal

## MURRAY 3-27A1E

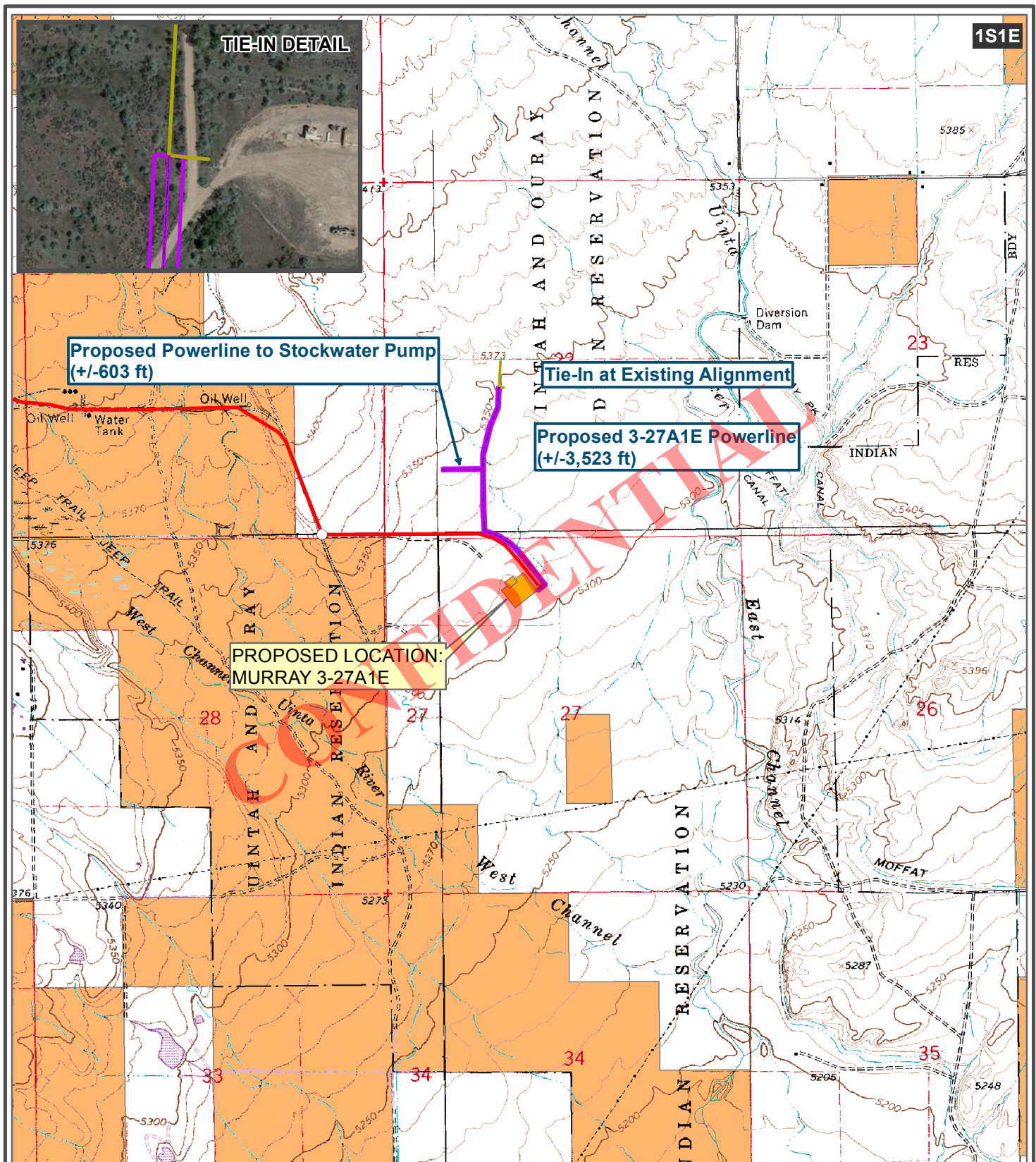
WELL LOCATION: NE/NW SECTION 27, T.1S, R.1E, U.S.B.&M.  
UINTAH COUNTY, UTAH

**EP ENERGY**

USGS 7.5'  
Fort Duchesne  
Quadrangle  
2014 Google Imagery

DEC 9, 2014  
SCALE: 1" = 2,000'  
AUTHOR: BWH

SHEET  
**B**



**OUTLAW  
ENGINEERING INC.**

P.O. BOX 1800  
ROOSEVELT, UTAH 84066  
(435) 232-4321



PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES

**Proposed ROW  
& Powerline**

0 500 1,000 1,500 2,000 Feet

VERSION: **V2**

SURVEYED: **12/9/14**

### LEGEND

- Proposed Powerline
- Proposed 50' ROW
- Proposed Access Road
- Existing Powerline
- Existing Access Road
- Proposed Pad

Legend: Federal, Private, State, Tribal

## MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T.1S, R.1E, U.S.B.&M.  
UINTAH COUNTY, UTAH

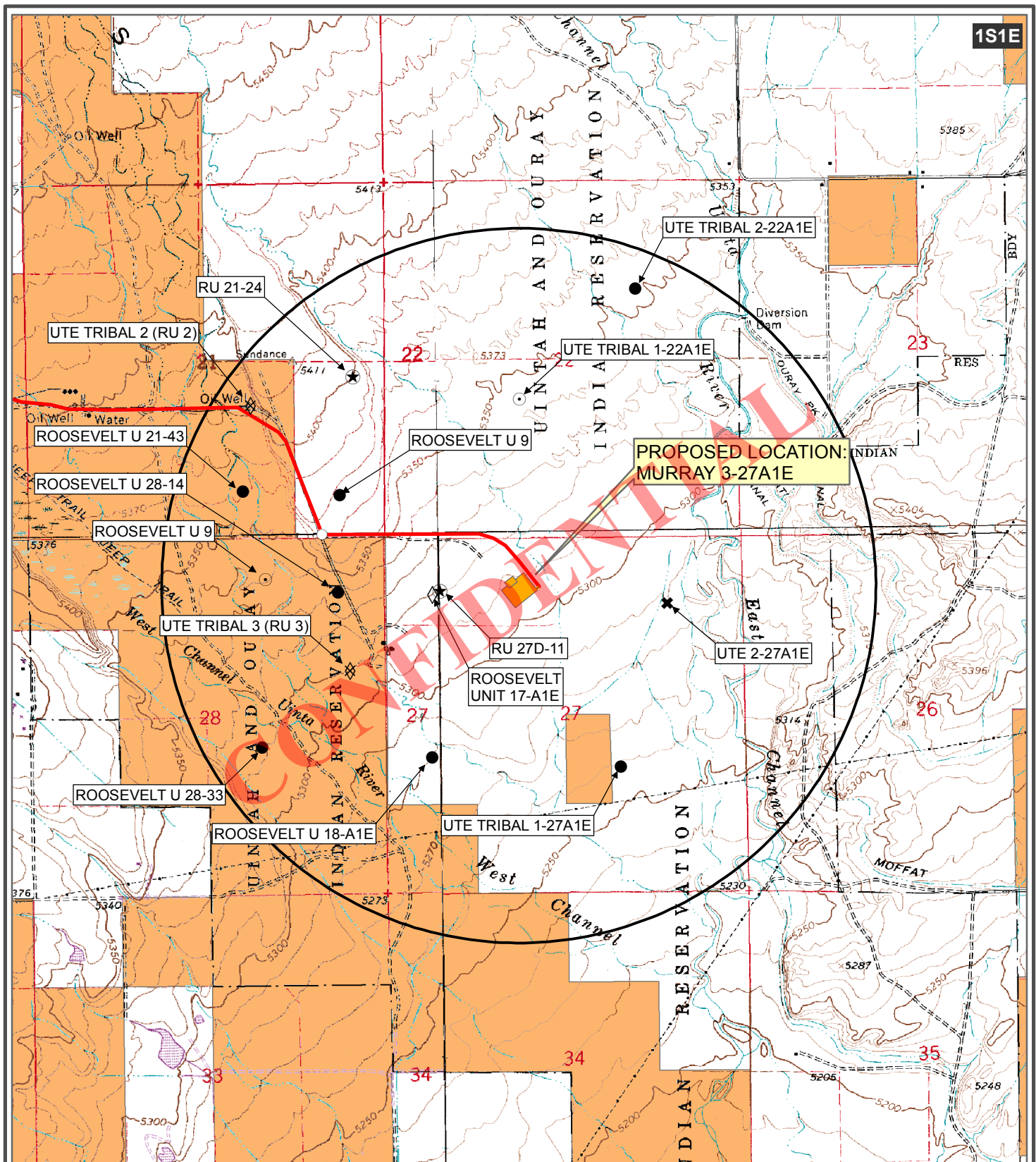
**EP ENERGY**

USGS 7.5'  
Fort Duchesne  
Quadrangle  
2014 Google Imagery

DEC 9, 2014  
SCALE: 1" = 2,000'  
AUTHOR: BWH

SHEET  
**C**





**OUTLAW  
ENGINEERING INC.**

P.O. BOX 1800  
ROOSEVELT, UTAH 84066  
(435) 232-4321



PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES

**Surrounding  
Wells**

0 500 1,000 1,500 2,000 Feet

VERSION: **V2**  
SURVEYED: **6-20-14**

#### LEGEND

- ★ New Permit
- Producing
- ✖ Returned APD
- ✖ Temporarily Abandoned
- ◇ Abandoned
- Shut-In
- One Mile Radius
- Federal ■ Private ■ State ■ Tribal

## MURRAY 3-27A1E

WELL LOCATION: NE/NW SECTION 27, T.1S, R.1E, U.S.B.&M.  
UINTAH COUNTY, UTAH

**EP ENERGY**

USGS 7.5'  
Fort Duchesne  
Quadrangle

DEC 9, 2014  
SCALE: 1" = 2,000'  
AUTHOR: BWH


SHEET  
**D**

**AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE**

Corie A. Mathews personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Corie A. Mathews. I am a Senior Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana Street, Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Murray 3-27A1E well ("the Well") to be located in the NE/4 of the NW/4 of Section 27, Township 1 South, Range 1 East, USM, Uintah County, Utah (the "Drillsite Location"). The surface owners of the Drillsite location are Tyson L. Murray and Cara Murray, whose address is PO Box 433, Lapoint, Utah 84039 and whose telephone number is (435) 790-2025 (the "Surface Owner").
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated January 5, 2015 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling, completing and producing of the Well.

FURTHER AFFIANT SAYETH NOT.

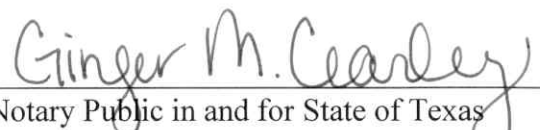
  
\_\_\_\_\_  
Corie A. Mathews

**ACKNOWLEDGMENT**

STATE OF TEXAS           §  
                                     §  
COUNTY OF HARRIS   §

This instrument was acknowledged before me on this the 27<sup>th</sup> day of January, 2015 by Corie A. Mathews as a Senior Landman for EP ENERGY E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.



  
\_\_\_\_\_  
Notary Public in and for State of Texas

EP Energy E&P Company, L.P.

**Related Surface Information**

1. **Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .01 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**

- Drilling water: Ballard City & Roosevelt City

5. **Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .01 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. **Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15<sup>th</sup>, and prior to ground frost, or seed will be planted after the frost has left and before May 15<sup>th</sup>. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
  1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
  2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
  3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
  1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
  2. Landowner will be contacted for rehabilitation requirements.

10. **Surface Ownership:**

Tyson L. Murray & Cara Murray  
PO Box 433  
Lapoint, Utah 84039  
435-790-2025

**Other Information:**

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

**Construction and Reclamation:**

EP Energy E&P Company, L.P.  
Wayne Garner  
PO Box 410  
Altamont, Utah 84001  
435-454-3394 – Office  
435-823-1490 – Cell

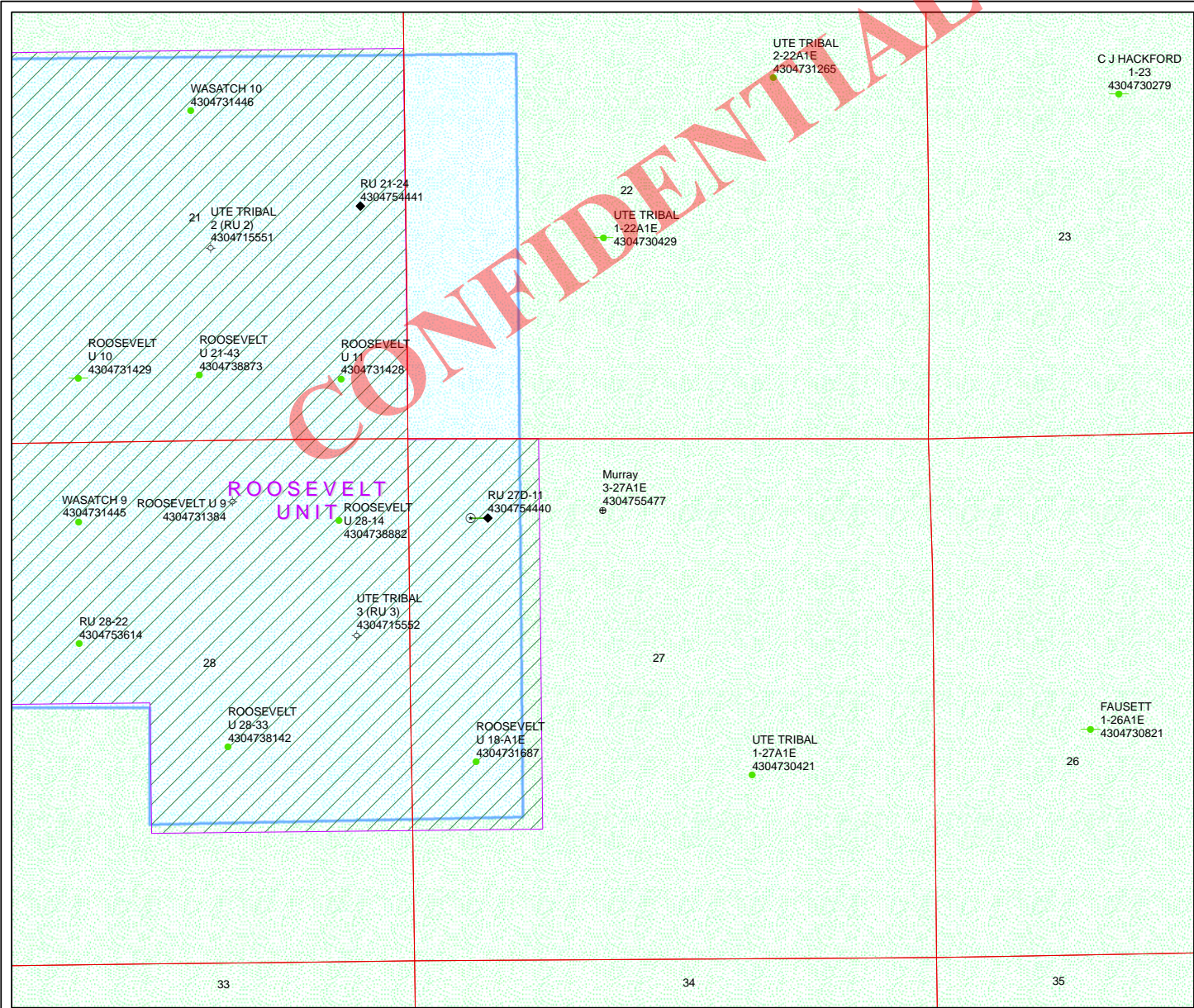
**Regarding This APD**

EP Energy E&P Company, L.P.  
Maria S. Gomez  
1001 Louisiana, Rm 2730D  
Houston, Texas 77002  
713-997-5038 – Office

**Drilling**

EP Energy E&P Company, L.P.  
Brent Baker – Drilling Engineer  
1001 Louisiana, Rm 2660E  
Houston, Texas 77002  
713-997-3323 – office  
832-457-6433 – Cell





API Number: 4304755477  
Well Name: Murray 3-27A1E

Township: T01.0S Range: R01.0E Section: 27 Meridian: U  
Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared: 10/22/2015  
Map Produced by Diana Mason

**Wells Query**

**Status**

- APD - Approved Permit
- DRL - Spudded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WW - Water Injection Well
- WSW - Water Supply Well

**Units**

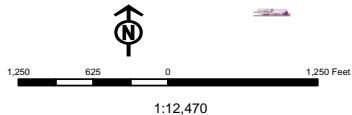
**STATUS**

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

**Fields**

**STATUS**

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED



# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** EP ENERGY E&P COMPANY, L.P.  
**Well Name** Murray 3-27A1E  
**API Number** 43047554770000      **APD No** 11389      **Field/Unit** BLUEBELL  
**Location: 1/4,1/4** NENW      **Sec** 27      **Tw** 1.0S      **Rng** 1.0E      724      FNL 1962      FWL  
**GPS Coord (UTM)** 595806 4469739      **Surface Owner** Tyson L. & Cara Murray

### **Participants**

Jeff Crozier - EP; McCoy Anderson - Outlaw Engineering; Branon Rochele - BLM ; Tyson Murray- Surface Owner

### **Regional/Local Setting & Topography**

This location is located in Uintah County alongside the East Channel of the Uintah River about 5 miles Northeast of Montes Creek Reservoir and 6 miles north of Bottle Hollow. The pad is proposed in an area of grazeland with some riparian character and a large drainage touching corner 4 and another intersecting pad through the center at the wellhead. Mr. Murray noted that these areas are annually flooded. Greasewood is the dominant vegetation and the soils are sandy loams. There are multiple Cottonwood and Russian Olive trees. It was noted that this well is within the Federal FEIS Sage Grouse polygon and Ute Ladies Tress is known to exist to the east

### **Surface Use Plan**

**Current Surface Use**  
Grazing

| <b>New Road Miles</b> | <b>Well Pad</b>               | <b>Src Const Material</b> | <b>Surface Formation</b> |
|-----------------------|-------------------------------|---------------------------|--------------------------|
| 0.25                  | <b>Width 400   Length 400</b> | Onsite                    | ALLU                     |

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N  
High water table and riparian character

#### **Flora / Fauna**

High desert shrubland / Riparian ecosystem. Expected vegetation consists of greasewood, cottonwood, Russian olive, Opuntia, spring annuals.

Dominant vegetation;  
Greasewood and willow  
Wildlife;

Adjacent habitat contains forbs that may be suitable browse for deer, antelope, Raptors, prairie dogs or rabbits. Moose and Butoes were observed. DWR did not respond with comment / issues

#### **Soil Type and Characteristics**

sandy loams



**Erosion Issues** N**Sedimentation Issues** N**Site Stability Issues** Y

high water table

**Drainage Diversion Required?** Y**Berm Required?** Y**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N**Reserve Pit****Site-Specific Factors****Site Ranking**

|                                          |                  |                        |
|------------------------------------------|------------------|------------------------|
| <b>Distance to Groundwater (feet)</b>    |                  | 20                     |
| <b>Distance to Surface Water (feet)</b>  | 300 to 1000      | 2                      |
| <b>Dist. Nearest Municipal Well (ft)</b> | >5280            | 0                      |
| <b>Distance to Other Wells (feet)</b>    | >1320            | 0                      |
| <b>Native Soil Type</b>                  | Mod permeability | 10                     |
| <b>Fluid Type</b>                        | TDS>5000 and     | 10                     |
| <b>Drill Cuttings</b>                    | Normal Rock      | 0                      |
| <b>Annual Precipitation (inches)</b>     |                  | 0                      |
| <b>Affected Populations</b>              |                  |                        |
| <b>Presence Nearby Utility Conduits</b>  | Present          | 15                     |
| <b>Final Score</b>                       |                  | 57 1 Sensitivity Level |

**Characteristics / Requirements**

Operator has asked for a reserve pit but, consensus was that a closed loop mud circulation system is warranted. High ground water is likely to be encountered. If while digging pit...any ground water is encountered, a closed loop system will be employed. Cuttings will also not be allowed to be buried on location but, delivered to an approved disposal facility.

**Closed Loop Mud Required?** Y **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y**Other Observations / Comments**

Within BLM Sage Grouse FEIS polygon.  
High ground water and yearly flooding in channel  
I would like to be present at excavation of reserve pit to verify the absence of ground water before proceeding

Chris Jensen  
Evaluator11/23/2015  
Date / Time

# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

| APD No    | API WellNo                                                           | Status | Well Type         | Surf Owner             | CBM |
|-----------|----------------------------------------------------------------------|--------|-------------------|------------------------|-----|
| 11389     | 43047554770000                                                       | LOCKED | OW                | P                      | No  |
| Operator  | EP ENERGY E&P COMPANY, L.P.                                          |        | Surface Owner-APD | Tyson L. & Cara Murray |     |
| Well Name | Murray 3-27A1E                                                       |        | Unit              |                        |     |
| Field     | BLUEBELL                                                             |        | Type of Work      | DRILL                  |     |
| Location  | NENW 27 1S 1E U 724 FNL 1962 FWL GPS Coord<br>(UTM) 595807E 4469740N |        |                   |                        |     |

#### Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill  
APD Evaluator

12/21/2015  
Date / Time

#### Surface Statement of Basis

Location is proposed in a suspect location within the spacing window. Access road enters the pad from the east. The landowner or its representative was in attendance for the pre-site inspection. The surface owner stated that this area floods on a regular basis. Because of the high potential for flooding, this location will need enhanced berms and a closed loop mud system while drilling.

The soil type, existing channels and high water table at present do combine to pose a threat to erosion or sediment/ pollution transport in these regional climate conditions.

Usual construction standards of the Operator appear to be adequate for the proposed purpose as submitted except for the intention of using a reserve pit.

I did not recognize any special flora or animal species or cultural resources on site that the proposed action may harm except that this is habitat for moose, raptors and is within the Federal Sage Grouse polygon. A riparian area can be found adjacent the site to the East and portions of the pad footprint exhibit riparian character. The location was not previously surveyed for cultural and paleontological resources ( as the operator saw fit). I have advised the operator take all measures necessary to comply with NHPA, ESA and MBTA and that actions insure no improper disturbance to resources that may have not been seen during onsite visit. If Cultural or Paleontological resources are found, Operator shall consult with SHPO and comply with requirements. Those resources shall remain undisturbed and remanded to surface owner for curation and scientific study or to remain as he wishes and further construction activities monitored.

The location should be bermed to prevent fluids from entering or leaving the confines of the pad. Fencing around the reserve or cuttings pit will be necessary to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the cuttings pit. Measures (BMP's) shall be taken to protect topsoil pile from erosion issues. A diversion is to be built sufficient to conduct overland or channel flow from a natural channels and reintroduce flows back into the natural channel offsite. Care to be taken that diversion of water does not impact or erode topsoil pile or topsoils will need to be stored elsewhere onsite. Tank battery is to be moved to an area of cut.

Chris Jensen  
Onsite Evaluator

11/23/2015  
Date / Time

**Conditions of Approval / Application for Permit to Drill**

| <b>Category</b> | <b>Condition</b>                                                                                                                                  |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Drilling        | A synthetic liner of 16 mils (minimum) should be utilized in the reserve or cuttings pit. Cuttings to be removed to an approved disposal facility |
| Pits            | A closed loop mud circulation system is required for this location.                                                                               |
| Surface         | Permanent berms shall be constructed to prevent fluids from entering or leaving the pad.                                                          |
| Surface         | Measures (BMP's) shall be taken to protect topsoil pile from erosion issues.                                                                      |
| Surface         | Drainages adjacent to the proposed pad shall be diverted around the location.                                                                     |
| Surface         | The cuttings pit shall be fenced upon completion of drilling operations.                                                                          |

CONFIDENTIAL

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/22/2015

API NO. ASSIGNED: 43047554770000

WELL NAME: Murray 3-27A1E

OPERATOR: EP ENERGY E&amp;P COMPANY, L.P. (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NENW 27 010S 010E

Permit Tech Review: ☒

SURFACE: 0724 FNL 1962 FWL

Engineering Review: ☐

BOTTOM: 0724 FNL 1962 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.37274

LONGITUDE: -109.87147

UTM SURF EASTINGS: 595807.00

NORTHINGS: 4469740.00

FIELD NAME: BLUEBELL

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H622662

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: INDIAN - RLB0009692☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: Roosevelt City & Ballard City☐ RDCC Review:☒ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 139-84

Effective Date: 12/31/2008

Siting: 4 WELLS PER 640 ACRE

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason  
5 - Statement of Basis - bhll

RECEIVED: January 04, 2016



GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** Murray 3-27A1E  
**API Well Number:** 43047554770000  
**Lease Number:** 1420H622662  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 1/4/2016

### Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

### Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Alexis Huefner at 801-538-5302

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

|                                                                                                                                                                                                                                                                                                    |  |                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING                                                                                                                                                                                                        |  | <b>FORM 9</b>                                                 |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>1420H622662 |
| <b>1. TYPE OF WELL</b><br>Oil Well                                                                                                                                                                                                                                                                 |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE           |
| <b>2. NAME OF OPERATOR:</b><br>EP ENERGY E&P COMPANY, L.P.                                                                                                                                                                                                                                         |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                          |
| <b>3. ADDRESS OF OPERATOR:</b><br>1001 Louisiana, Houston, TX, 77002                                                                                                                                                                                                                               |  | <b>8. WELL NAME and NUMBER:</b><br>Murray 3-27A1E             |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0724 FNL 1962 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NENW Section: 27 Township: 01.0S Range: 01.0E Meridian: U                                                                                        |  | <b>9. API NUMBER:</b><br>43047554770000                       |
| <b>PHONE NUMBER:</b><br>713 997-5138 Ext                                                                                                                                                                                                                                                           |  | <b>9. FIELD and POOL or WILDCAT:</b><br>BLUEBELL              |
| <b>COUNTY:</b><br>UINTAH                                                                                                                                                                                                                                                                           |  | <b>STATE:</b><br>UTAH                                         |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                                                                                   | TYPE OF ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br><b>6/15/2016</b> | <input type="checkbox"/> ACIDIZE<br><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <input style="width: 100px;" type="text"/> |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

Change of plans to an approved drilling permit. The drilling unit has been reduced to 520 acres thus needing to drill this well directionally to meet the 660' lease line distance requirement. Attached is the new 8-Point Drilling Plan, WBD, Directional Survey, Plat, and Exception Letter. 04.27.16 - Note: Per our recent email correspondence, I am replacing the entire attachment to include the corrected location plat. Everything in the attachment is the same except for the plat. The actual surface location of this well is in the NE 1/4 of the NW 1/4 of Section 27, T1S, R1E. Thank you.

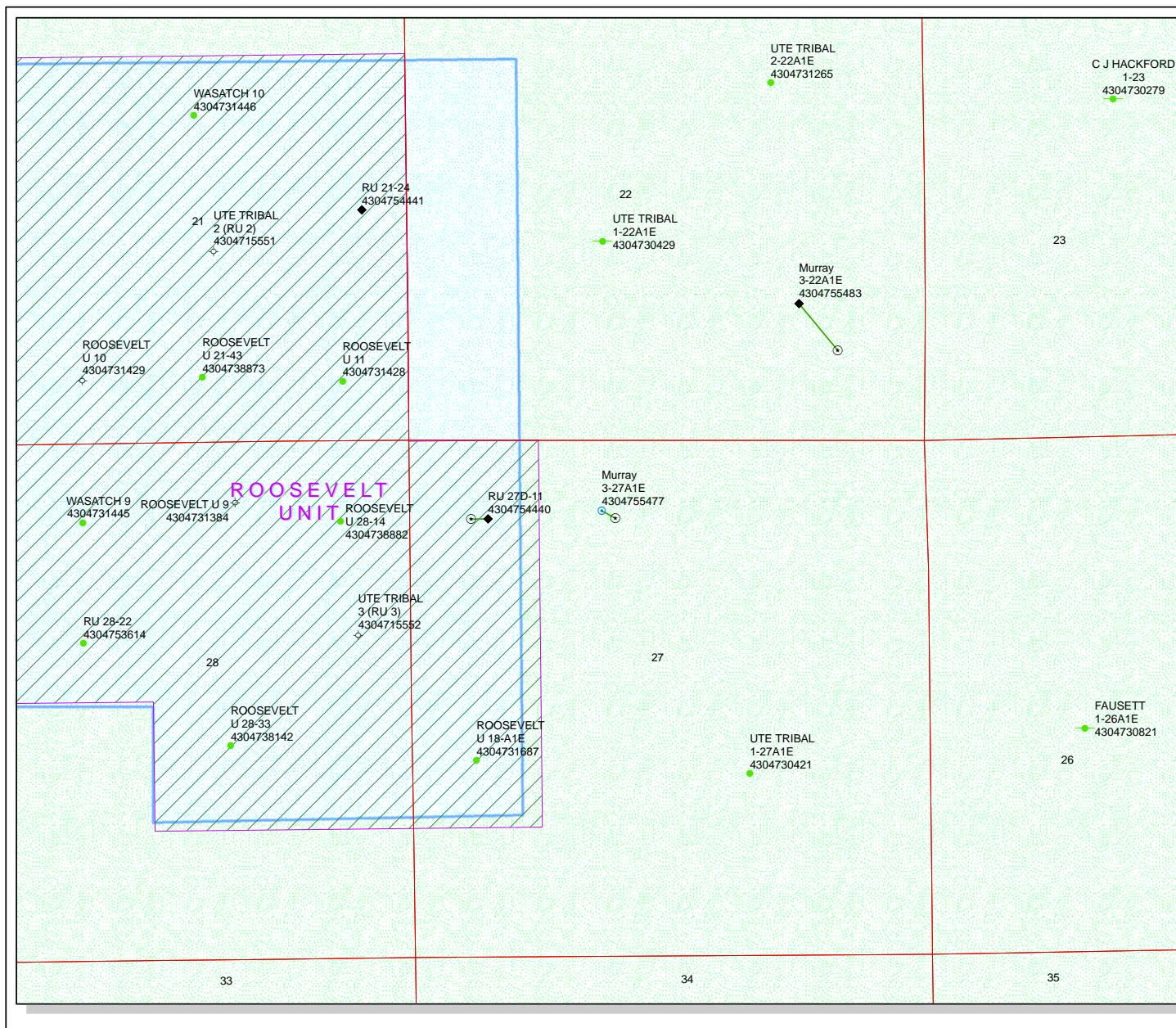
Approved by the  
May 10, 2016  
Oil, Gas and Mining

Date: \_\_\_\_\_

By:

|                                            |                                     |                                        |
|--------------------------------------------|-------------------------------------|----------------------------------------|
| <b>NAME (PLEASE PRINT)</b><br>Linda Renken | <b>PHONE NUMBER</b><br>713 997-5138 | <b>TITLE</b><br>Sr. Regulatory Analyst |
| <b>SIGNATURE</b><br>N/A                    | <b>DATE</b><br>4/13/2016            |                                        |





**API Number: 4304755477**

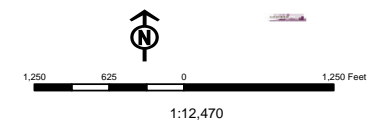
**Well Name: Murray 3-27A1E**

Township: T01.0S Range: R01.0E Section: 27 Meridian: U

Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared: 5/10/2016  
Map Produced by Diana Mason

| Wells Query                        |  | Units        |  |
|------------------------------------|--|--------------|--|
| Status                             |  | STATUS       |  |
| APD - Approved Permit              |  | ACTIVE       |  |
| DRL - Spudded (Drilling Commenced) |  | EXPLORATORY  |  |
| GIW - Gas Injection                |  | GAS STORAGE  |  |
| GS - Gas Storage                   |  | NF PP OIL    |  |
| LOC - New Location                 |  | NF SECONDARY |  |
| OPS - Operation Suspended          |  | PI OIL       |  |
| PA - Plugged Abandoned             |  | PP GAS       |  |
| PGW - Producing Gas Well           |  | PP GEOTHERML |  |
| POW - Producing Oil Well           |  | PP OIL       |  |
| SGW - Shut-in Gas Well             |  | SECONDARY    |  |
| SOW - Shut-in Oil Well             |  | TERMINATED   |  |
| TA - Temp. Abandoned               |  |              |  |
| TW - Test Well                     |  |              |  |
| WDW - Water Disposal               |  |              |  |
| WW - Water Injection Well          |  |              |  |
| WSW - Water Supply Well            |  |              |  |
|                                    |  | Fields       |  |
|                                    |  | STATUS       |  |
|                                    |  | Unknown      |  |
|                                    |  | ABANDONED    |  |
|                                    |  | ACTIVE       |  |
|                                    |  | COMBINED     |  |
|                                    |  | INACTIVE     |  |
|                                    |  | STORAGE      |  |
|                                    |  | TERMINATED   |  |





**Murray 3-27A1E  
Sec. 27, T1S, R1E  
UINTAH COUNTY, UT**

**EP ENERGY E&P COMPANY, L.P.**

**DRILLING PROGRAM**

**1. Estimated Tops of Important Geologic Markers**

| <u>Formation</u>    | <u>Depth</u>             |
|---------------------|--------------------------|
| Green River (GRRV)  | 5,283' MD / 5,283' TVD   |
| Green River (GRTN1) | 6,445' MD / 6,438' TVD   |
| Mahogany Bench      | 7,257' MD / 7,249' TVD   |
| L. Green River      | 8,513' MD / 8,505' TVD   |
| Wasatch             | 9,523' MD / 9,515' TVD   |
| T.D. (Permit)       | 13,908' MD / 13,900' TVD |

**2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:**

| <u>Substance</u> | <u>Formation</u>    | <u>Depth</u>           |
|------------------|---------------------|------------------------|
|                  | Green River (GRRV)  | 5,283' MD / 5,283' TVD |
|                  | Green River (GRTN1) | 6,445' MD / 6,438' TVD |
|                  | Mahogany Bench      | 7,257' MD / 7,249' TVD |
| Oil              | L. Green River      | 8,513' MD / 8,505' TVD |
| Oil              | Wasatch             | 9,523' MD / 9,515' TVD |

**3. Pressure Control Equipment: (Schematic Attached)**

A 5.0" by 20.0" rotating head on structural pipe from surface to 832' MD/TVD. A 13-5/8" 10M BOP w/ rotating head from 500' MD/TVD to 4,000' MD/TVD on Conductor. A 13-5/8" 10M BOP stack (top to bottom) w/ rotating head, 10M annular, 5" pipe rams, blind rams, mud cross, single w/ 4" pipe rams and B section used from 4,000' MD/TVD to 9,628' MD/ 9,620' TVD. A 13-5/8" 10M BOP stack (top to bottom) w/ rotating head, 10M annular, 5" pipe rams, blind rams, mud cross, 4" pipe rams from 9,628' MD/ 9,620' TVD to TD (13,908' MD/ 13,900' TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

**OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:**

The conductor casing will be equipped with a flanged casing head of 5M psi working pressure. A 13-5/8" x 10M psi BOP and 10M psi annular will be nipped up on the conductor casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The conductor casing will be tested to 1,000 psi. for 30 mins. Surface casing will be tested to 1000 psi. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and

floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with a rotating head, 5" pipe rams, blind rams, mud cross, 4" pipe rams from conductor shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running both the surface casing, intermediate casing, or after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

#### **Statement on Accumulator System and Location of Hydraulic Controls:**

Nabors X21 will be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

#### **Auxiliary Equipment:**

- A) My Wells Gas Monitoring 500' - TD
- B) Mud logger with gas monitor – 4,000' to TD (13,908' MD/ 13,900' TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

#### **4. Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

#### **5. Drilling Fluids Program:**

Proposed Mud Program:

| Interval     | Type | Mud Weight  |
|--------------|------|-------------|
| Surface      | WBM  | 10.5        |
| Intermediate | WBM  | 9.5 – 10.1  |
| Production   | WBM  | 11.0 – 13.7 |

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing. Visual mud monitoring equipment will be utilized.

**6. Evaluation Program:**

Logs:

Mud Log: 4,000' MD/ TVD – TD

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

**7. Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 13,900' TVD equals approximately 9,902 psi. This is calculated based on a 0.7124 psi/ft gradient (13.7 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 6,844 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 9,620' TVD = 7,696 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 6,844 psi.

**8. OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.****9. Variances Requested**

A request for Variance of Onshore Order #2 Section III E is requested as follows for the air rig:

1. In addition to the equipment already specified elsewhere in this onshore order, the following equipment shall be in place and operational during air/mist drilling:

| Regulation                                                                           | Variance                                                                             |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Properly lubricated and maintained rotating head*                                    | None – Will have                                                                     |
| Spark arresters on engines or water cooled exhaust*                                  | None – Will have                                                                     |
| Blooiie line discharge 100 feet from well bore and securely anchored                 | Variance Needed – wellbore only 58' away                                             |
| Straight run on blooiie line unless otherwise approved                               | None – Will have                                                                     |
| Deduster equipment*                                                                  | Variance Needed– Will be using mist as a deduster                                    |
| All cuttings and circulating medium shall be directed into a reserve or blooiie pit* | None – Will have                                                                     |
| Float Valve above pit*                                                               | None – Will have                                                                     |
| Automatic igniter or continuous pilot light on the blooiie line*                     | Variance Needed – Not going into hydrocarbons – not seen in any well we have pre-set |

|                                                                                                                                                                  |                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore                                                      | Variance Needed – One compressor 50' in pipe trailer & the other 20' on rig |
| Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits | Variance Needed – Nabors X21 will be close to this location                 |

#### 10. Air Rig Operation Description

Once conductor pipe is set, Leon Ross uses their air rig to back up on a 2 ft substructure over the well. Rig up time takes approximately 30 minutes. A collar trailer is backed up to the air rig and collars are hoisted to make up the bit. The rotating head rubber is then seated and drilling is commenced. For the first 1,500 ft. of hole, 3 compressors are used with pump rates close to 3,000 SCFM with 35 GPM of fresh water and a small amount of foam. At around 1,500 ft. one compressor is turned off and the booster is turned to achieve a pump rate of around 2,000 SCFM. The well is then drilled to TD and it is circulated 1 to 3 hours depending on hole conditions. A wiper trip may be made if the hole needs it. The collars and bit are then tripped out and laid down and it takes the crew around 30 minutes to get ready to run casing. The 9-5/8" casing string is then run to bottom and cemented in place.





## Drilling Schematic

|                                                                                                                                                                                                                                                                       |                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Company Name:</b> EP ENERGY                                                                                                                                                                                                                                        | <b>Date:</b> May 9, 2016                      |
| <b>Well Name:</b> Murray 3-27A1E                                                                                                                                                                                                                                      | <b>TD:</b> 13,908' MD / 13,900' TVD           |
| <b>Field, County, State:</b> Altamont, Duchesne, Utah                                                                                                                                                                                                                 | <b>AFE #:</b> TBD                             |
| <b>Surface Location:</b> Sec 27 T1S R1E 724' FNL 1962' FWL                                                                                                                                                                                                            | <b>BHL:</b> Sec 27 T1S R1E 800' FNL 2100' FWL |
| <b>Objective Zone(s):</b> Green River, Wasatch                                                                                                                                                                                                                        | <b>Elevation:</b> 5,312'                      |
| <b>Rig:</b> Nabors X21                                                                                                                                                                                                                                                | <b>Spud (est.):</b> June 2016                 |
| <b>BOPE Info:</b> 13-5/8" 10M w/ rotating head from 500' to 4,000'. 13-5/8" 10M BOPE w/ rotating head & 10M annular from 4,000' to 9,628'.<br>13-5/8" 10M BOPE w/ rotating head, 10M annular, 5" pipe rams, blind rams, single w/ 3.5"x" Flex rams from 9,628' to TD. |                                               |

| GEOLOGICAL                                                                                                                                                       |      |       | MECHANICAL        |                        |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------------------|------------------------|---------------------|
| LOGS                                                                                                                                                             | TOPS | DEPTH | HOLE SIZE         | CASING SIZE            | MUD WEIGHT          |
| 500' MD / TVD                                                                                                                                                    |      |       | TOC @ 0'          | 13 3/8" 54.5# J-55 STC |                     |
|                                                                                                                                                                  |      |       | 12-1/4"           | 9-5/8" 40# N-80 LTC    | 10.5 ppg WBM        |
| Base MSGW 2,545'                                                                                                                                                 |      |       | TOC @ 3,500'      |                        |                     |
| 4,000' MD / 4,000'TVD                                                                                                                                            |      |       | FIT to 0.8 psi/ft |                        |                     |
| Mud Logger @ 4,000'                                                                                                                                              |      |       |                   |                        |                     |
| Start build @ 5,000' and build @ 1.5°/100' to 6.02° INC by 5,401' MD. Hold 6.02° INC to 6,506' MD. Begin dropping angle back to 0° INC @ 1.5°/100' by 6,907' MD. |      |       |                   |                        |                     |
| Green River (GRRV) 5283'                                                                                                                                         |      |       |                   |                        |                     |
| Green River (GRTN1) 6,438'                                                                                                                                       |      |       |                   |                        |                     |
| Mahogany Bench 7,249'                                                                                                                                            |      |       |                   |                        |                     |
| Triple/Quad Combo                                                                                                                                                |      |       | 8-3/4"            | 7" 29# HCP-110 LTC     | 9.5 - 10.1 ppg WBM  |
| Lower Green River (TGR3) 8,505'                                                                                                                                  |      |       |                   |                        |                     |
| CP70 9,170'                                                                                                                                                      |      |       | TOL @ 9428        |                        |                     |
| Wasatch (W090TU2) 9,515'                                                                                                                                         |      |       | TOC @ 9428        |                        |                     |
| 9,628' MD / 9,620' TVD                                                                                                                                           |      |       | FIT to 0.8 psi/ft |                        |                     |
| Triple/Quad Combo                                                                                                                                                |      |       | 6-1/8"            | 5" 18# HCP-110 STL     | 11.0 - 13.7 ppg WBM |
| 13,908' MD / 13,900' TVD                                                                                                                                         |      |       |                   |                        |                     |

DRILLING / CASING PROGRAM

| CASING PROGRAM   | SIZE    | INTERVAL |         | WT.   | GR.     | CPLG. | BURST  | COLLAPSE | TENSION |
|------------------|---------|----------|---------|-------|---------|-------|--------|----------|---------|
| CONDUCTOR        | 13-3/8" | 0'       | 500'    | 54.5  | J-55    | STC   | 2,740  | 1,130    | 514     |
| SURFACE          | 9-5/8"  | 0'       | 4,000'  | 40.00 | N-80    | LTC   | 5,750  | 3,090    | 737     |
| INTERMEDIATE     | 7"      | 0'       | 9,628'  | 29.00 | HCP-110 | LTC   | 11,220 | 9,750    | 797     |
| PRODUCTION LINER | 5"      | 9,428'   | 13,908' | 18.00 | HCP-110 | STL   | 13,940 | 15,450   | 341     |

CEMENT PROGRAM

| CEMENT PROGRAM   |      | FT. OF FILL | DESCRIPTION                                                                                                                                                                         | SACKS | EXCESS | WEIGHT   | YIELD |
|------------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|----------|-------|
| CONDUCTOR        |      | 500'        | Class G + 3% CACL2                                                                                                                                                                  | 637   | 100%   | 15.8 ppg | 1.15  |
| SURFACE          | Lead | 3,000'      | Premium Type V Cement + 16% Gel + 5 lb/sk Gilsonite+ 0.3% Salt + 0.25 lb/sk Flocele                                                                                                 | 560   | 75%    | 12.0 ppg | 2.79  |
|                  | Tail | 1,000'      | Premium Class G Cement (50/50) + 2% Gel + 3% Salt + 0.25 lb/sk Flocele                                                                                                              | 375   | 50%    | 14.3 ppg | 1.30  |
| INTERMEDIATE     | Lead | 4,328'      | VariCem SYSTEM: Holcim II/V 60%, Boral Craig Pozmix 30%, Silicalite 10% + 0.2% Halad-344 + 2% Bentonite + 0.25 lb/sk Pol-E-Flake + 0.1% HR-5 + 0.05% SA-1015 + 2 lb/sk WellLife 708 | 495   | 30%    | 12.5 ppg | 1.68  |
|                  | Tail | 1,800'      | VariCem SYSTEM: Holcim II/V 60%, Boral Craig Pozmix 30%, Silicalite 10% + 0.2% Halad-344 + 2% Bentonite + 0.25 lb/sk Pol-E-Flake + 0.1% HR-5 + 0.05% SA-1015 + 2 lb/sk WellLife 708 | 250   | 30%    | 13.0 ppg | 1.50  |
| PRODUCTION LINER |      | 4,480'      | ExpandaCem SYSTEM: 50/50 Class G Cement + 0.2% Super CBL +0.3% Halad 344 + 0.3% Halad 413 + 5 lb/sk Silicalite + 20% SSA-1 + 2% Bentonite + 0.75% HR-5                              | 275   | 25%    | 14.2 ppg | 1.42  |

| FLOAT EQUIPMENT & CENTRALIZERS |                                                                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONDUCTOR                      | PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.                                     |
| SURFACE                        | PDC drillable guide shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter. |
| INTERMEDIATE                   | Halliburton's PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Marker joint at +/-8,500'.                                         |
| LINER                          | Float shoe, 1 joint, float collar,1 joint, landing collar. Thread lock all FE. Marker joints every 1000'.                                                                                             |

PROJECT ENGINEER(S):

Brent Baker

Office: 713.997.3323 Mobile: 832.457.6433

MANAGER:

Sergio Mares



## **EP Energy E&P Company, L.P.**

**Duchesne Co, UT**

**Murray 3-27A1E**

**3-27A1E**

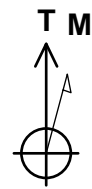
**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**11 April, 2016**





Azimuths to True North  
Magnetic North: 10.60°

Magnetic Field  
Strength: 52002.5snT  
Dip Angle: 66.22°  
Date: 4/11/2016  
Model: HDGM

Project: Duchesne Co, UT  
Site: Murray 3-27A1E  
Well: 3-27A1E  
Wellbore: Wellbore #1  
Design: Design #1

Site Center Latitude: 40° 22' 21.82941 N  
Site Center Longitude: 109° 52' 17.28034 W  
Positional Uncertainty: 0.00  
Convergence: 1.04  
Local North: True

Duchesne Co, UT

Geodetic System: US State Plane 1983

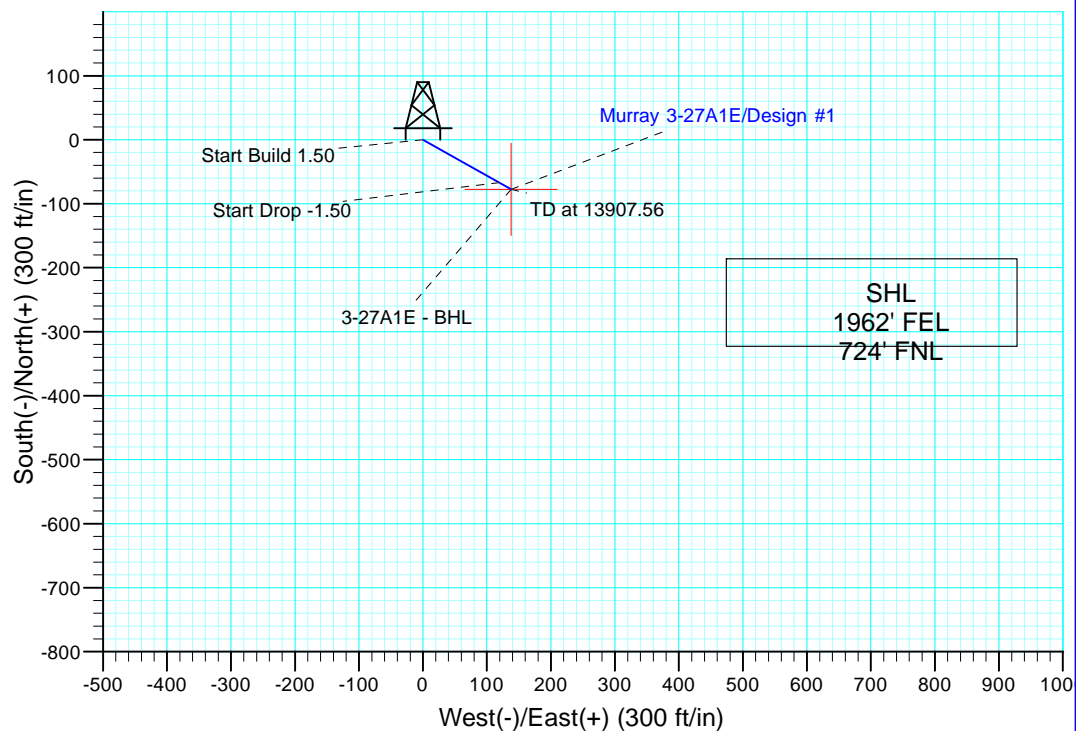
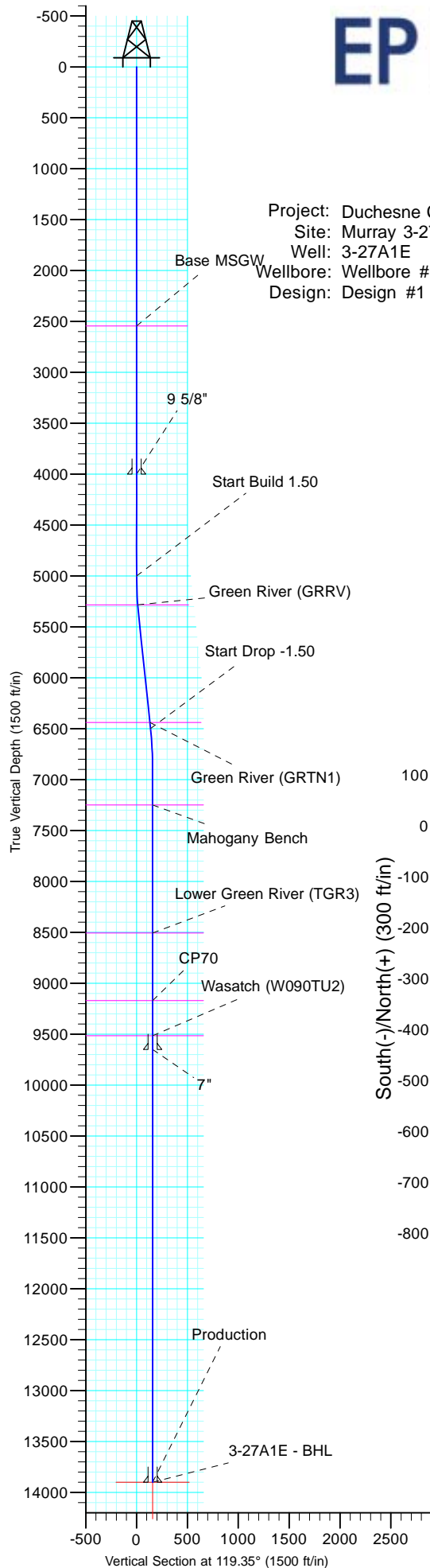
Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: Utah Central Zone

System Datum: Mean Sea Level

| SECTION DETAILS |      |        |          |        |        |      |        |        |  | Target        |
|-----------------|------|--------|----------|--------|--------|------|--------|--------|--|---------------|
| MD              | Inc  | Azi    | TVD      | +N/-S  | +E/-W  | Dleg | TFace  | VSect  |  |               |
| 0.00            | 0.00 | 0.00   | 0.00     | 0.00   | 0.00   | 0.00 | 0.00   | 0.00   |  |               |
| 5000.00         | 0.00 | 0.00   | 5000.00  | 0.00   | 0.00   | 0.00 | 0.00   | 0.00   |  |               |
| 5401.11         | 6.02 | 119.35 | 5400.37  | -10.31 | 18.34  | 1.50 | 119.35 | 21.04  |  |               |
| 6505.45         | 6.02 | 119.35 | 6498.63  | -67.06 | 119.23 | 0.00 | 0.00   | 136.80 |  |               |
| 6906.56         | 0.00 | 0.00   | 6899.00  | -77.37 | 137.57 | 1.50 | 180.00 | 157.84 |  |               |
| 9657.56         | 0.00 | 0.00   | 9650.00  | -77.37 | 137.57 | 0.00 | 0.00   | 157.84 |  |               |
| 13907.56        | 0.00 | 0.00   | 13900.00 | -77.37 | 137.57 | 0.00 | 0.00   | 157.84 |  | 3-27A1E - BHL |







## Planning Report



|                  |                             |                                     |                                    |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | Ryan USA                    | <b>Local Co-ordinate Reference:</b> | Well 3-27A1E                       |
| <b>Company:</b>  | EP Energy E&P Company, L.P. | <b>TVD Reference:</b>               | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Project:</b>  | Duchesne Co, UT             | <b>MD Reference:</b>                | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Site:</b>     | Murray 3-27A1E              | <b>North Reference:</b>             | True                               |
| <b>Well:</b>     | 3-27A1E                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                 |                                     |                                    |
| <b>Design:</b>   | Design #1                   |                                     |                                    |

|             |                           |               |                |
|-------------|---------------------------|---------------|----------------|
| Project     | Duchesne Co, UT           |               |                |
| Map System: | US State Plane 1983       | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983 |               |                |
| Map Zone:   | Utah Central Zone         |               |                |

|           |             |             |                 |               |                     |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | Wellbore #1 |             |                 |               |                     |
| Magnetics | Model Name  | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | HDGM        | 4/11/2016   | 10.60           | 66.22         | 52,003              |

|                   |                          |               |               |                  |
|-------------------|--------------------------|---------------|---------------|------------------|
| Design            | Design #1                |               |               |                  |
| Audit Notes:      |                          |               |               |                  |
| Version:          | Phase:                   | PLAN          | Tie On Depth: | 0.00             |
| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°) |
|                   | 0.00                     | 0.00          | 0.00          | 119.35           |

| Plan Sections             |                    |                |                           |               |               |                             |                            |                           |            |               |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|---------------|
| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) | TFO<br>(°) | Target        |
| 0.00                      | 0.00               | 0.00           | 0.00                      | 0.00          | 0.00          | 0.00                        | 0.00                       | 0.00                      | 0.00       |               |
| 5,000.00                  | 0.00               | 0.00           | 5,000.00                  | 0.00          | 0.00          | 0.00                        | 0.00                       | 0.00                      | 0.00       |               |
| 5,401.11                  | 6.02               | 119.35         | 5,400.37                  | -10.31        | 18.34         | 1.50                        | 1.50                       | 0.00                      | 119.35     |               |
| 6,505.45                  | 6.02               | 119.35         | 6,498.63                  | -67.06        | 119.23        | 0.00                        | 0.00                       | 0.00                      | 0.00       |               |
| 6,906.56                  | 0.00               | 0.00           | 6,899.00                  | -77.37        | 137.57        | 1.50                        | -1.50                      | 0.00                      | 180.00     |               |
| 9,657.56                  | 0.00               | 0.00           | 9,650.00                  | -77.37        | 137.57        | 0.00                        | 0.00                       | 0.00                      | 0.00       |               |
| 13,907.56                 | 0.00               | 0.00           | 13,900.00                 | -77.37        | 137.57        | 0.00                        | 0.00                       | 0.00                      | 0.00       | 3-27A1E - BHL |



|                  |                             |                                     |                                    |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | Ryan USA                    | <b>Local Co-ordinate Reference:</b> | Well 3-27A1E                       |
| <b>Company:</b>  | EP Energy E&P Company, L.P. | <b>TVD Reference:</b>               | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Project:</b>  | Duchesne Co, UT             | <b>MD Reference:</b>                | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Site:</b>     | Murray 3-27A1E              | <b>North Reference:</b>             | True                               |
| <b>Well:</b>     | 3-27A1E                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                 |                                     |                                    |
| <b>Design:</b>   | Design #1                   |                                     |                                    |

| Planned Survey          |                 |             |                     |            |            |                       |                       |                      |                     |
|-------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)     | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00                    | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 100.00                  | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 200.00                  | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 300.00                  | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 400.00                  | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 500.00                  | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 600.00                  | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 700.00                  | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 800.00                  | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 900.00                  | 0.00            | 0.00        | 900.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,000.00                | 0.00            | 0.00        | 1,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,100.00                | 0.00            | 0.00        | 1,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,200.00                | 0.00            | 0.00        | 1,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,300.00                | 0.00            | 0.00        | 1,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,400.00                | 0.00            | 0.00        | 1,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,500.00                | 0.00            | 0.00        | 1,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,600.00                | 0.00            | 0.00        | 1,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,700.00                | 0.00            | 0.00        | 1,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,800.00                | 0.00            | 0.00        | 1,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,900.00                | 0.00            | 0.00        | 1,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,000.00                | 0.00            | 0.00        | 2,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,100.00                | 0.00            | 0.00        | 2,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,200.00                | 0.00            | 0.00        | 2,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,300.00                | 0.00            | 0.00        | 2,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,400.00                | 0.00            | 0.00        | 2,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,500.00                | 0.00            | 0.00        | 2,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,545.00                | 0.00            | 0.00        | 2,545.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Base MSGW</b>        |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,600.00                | 0.00            | 0.00        | 2,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,700.00                | 0.00            | 0.00        | 2,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,800.00                | 0.00            | 0.00        | 2,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,900.00                | 0.00            | 0.00        | 2,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,000.00                | 0.00            | 0.00        | 3,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,100.00                | 0.00            | 0.00        | 3,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,200.00                | 0.00            | 0.00        | 3,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,300.00                | 0.00            | 0.00        | 3,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,400.00                | 0.00            | 0.00        | 3,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,500.00                | 0.00            | 0.00        | 3,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,600.00                | 0.00            | 0.00        | 3,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,700.00                | 0.00            | 0.00        | 3,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,800.00                | 0.00            | 0.00        | 3,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,900.00                | 0.00            | 0.00        | 3,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,000.00                | 0.00            | 0.00        | 4,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,100.00                | 0.00            | 0.00        | 4,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,200.00                | 0.00            | 0.00        | 4,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,300.00                | 0.00            | 0.00        | 4,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,400.00                | 0.00            | 0.00        | 4,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,500.00                | 0.00            | 0.00        | 4,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,600.00                | 0.00            | 0.00        | 4,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,700.00                | 0.00            | 0.00        | 4,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,800.00                | 0.00            | 0.00        | 4,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,900.00                | 0.00            | 0.00        | 4,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,000.00                | 0.00            | 0.00        | 5,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Start Build 1.50</b> |                 |             |                     |            |            |                       |                       |                      |                     |



|                  |                             |                                     |                                    |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | Ryan USA                    | <b>Local Co-ordinate Reference:</b> | Well 3-27A1E                       |
| <b>Company:</b>  | EP Energy E&P Company, L.P. | <b>TVD Reference:</b>               | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Project:</b>  | Duchesne Co, UT             | <b>MD Reference:</b>                | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Site:</b>     | Murray 3-27A1E              | <b>North Reference:</b>             | True                               |
| <b>Well:</b>     | 3-27A1E                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                 |                                     |                                    |
| <b>Design:</b>   | Design #1                   |                                     |                                    |

| Planned Survey                  |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)             | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,100.00                        | 1.50            | 119.35      | 5,099.99            | -0.64      | 1.14       | 1.31                  | 1.50                  | 1.50                 | 0.00                |
| 5,200.00                        | 3.00            | 119.35      | 5,199.91            | -2.57      | 4.56       | 5.23                  | 1.50                  | 1.50                 | 0.00                |
| 5,283.26                        | 4.25            | 119.35      | 5,283.00            | -5.15      | 9.15       | 10.50                 | 1.50                  | 1.50                 | 0.00                |
| <b>Green River (GRRV)</b>       |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,300.00                        | 4.50            | 119.35      | 5,299.69            | -5.77      | 10.26      | 11.77                 | 1.50                  | 1.50                 | 0.00                |
| 5,401.11                        | 6.02            | 119.35      | 5,400.37            | -10.31     | 18.34      | 21.04                 | 1.50                  | 1.50                 | 0.00                |
| 5,500.00                        | 6.02            | 119.35      | 5,498.72            | -15.40     | 27.37      | 31.41                 | 0.00                  | 0.00                 | 0.00                |
| 5,600.00                        | 6.02            | 119.35      | 5,598.17            | -20.53     | 36.51      | 41.89                 | 0.00                  | 0.00                 | 0.00                |
| 5,700.00                        | 6.02            | 119.35      | 5,697.62            | -25.67     | 45.65      | 52.37                 | 0.00                  | 0.00                 | 0.00                |
| 5,800.00                        | 6.02            | 119.35      | 5,797.07            | -30.81     | 54.78      | 62.85                 | 0.00                  | 0.00                 | 0.00                |
| 5,900.00                        | 6.02            | 119.35      | 5,896.52            | -35.95     | 63.92      | 73.33                 | 0.00                  | 0.00                 | 0.00                |
| 6,000.00                        | 6.02            | 119.35      | 5,995.96            | -41.09     | 73.05      | 83.82                 | 0.00                  | 0.00                 | 0.00                |
| 6,100.00                        | 6.02            | 119.35      | 6,095.41            | -46.22     | 82.19      | 94.30                 | 0.00                  | 0.00                 | 0.00                |
| 6,200.00                        | 6.02            | 119.35      | 6,194.86            | -51.36     | 91.33      | 104.78                | 0.00                  | 0.00                 | 0.00                |
| 6,300.00                        | 6.02            | 119.35      | 6,294.31            | -56.50     | 100.46     | 115.26                | 0.00                  | 0.00                 | 0.00                |
| 6,400.00                        | 6.02            | 119.35      | 6,393.76            | -61.64     | 109.60     | 125.74                | 0.00                  | 0.00                 | 0.00                |
| 6,444.48                        | 6.02            | 119.35      | 6,438.00            | -63.92     | 113.66     | 130.41                | 0.00                  | 0.00                 | 0.00                |
| <b>Green River (GRTN1)</b>      |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,505.45                        | 6.02            | 119.35      | 6,498.63            | -67.06     | 119.23     | 136.80                | 0.00                  | 0.00                 | 0.00                |
| <b>Start Drop -1.50</b>         |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,600.00                        | 4.60            | 119.35      | 6,592.77            | -71.34     | 126.85     | 145.54                | 1.50                  | -1.50                | 0.00                |
| 6,700.00                        | 3.10            | 119.35      | 6,692.54            | -74.63     | 132.70     | 152.25                | 1.50                  | -1.50                | 0.00                |
| 6,800.00                        | 1.60            | 119.35      | 6,792.46            | -76.64     | 136.28     | 156.35                | 1.50                  | -1.50                | 0.00                |
| 6,906.56                        | 0.00            | 0.00        | 6,899.00            | -77.37     | 137.57     | 157.84                | 1.50                  | -1.50                | 0.00                |
| 7,000.00                        | 0.00            | 0.00        | 6,992.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 7,100.00                        | 0.00            | 0.00        | 7,092.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 7,200.00                        | 0.00            | 0.00        | 7,192.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 7,256.56                        | 0.00            | 0.00        | 7,249.00            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| <b>Mahogany Bench</b>           |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,300.00                        | 0.00            | 0.00        | 7,292.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 7,400.00                        | 0.00            | 0.00        | 7,392.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 7,500.00                        | 0.00            | 0.00        | 7,492.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 7,600.00                        | 0.00            | 0.00        | 7,592.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 7,700.00                        | 0.00            | 0.00        | 7,692.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 7,800.00                        | 0.00            | 0.00        | 7,792.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 7,900.00                        | 0.00            | 0.00        | 7,892.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,000.00                        | 0.00            | 0.00        | 7,992.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,100.00                        | 0.00            | 0.00        | 8,092.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,200.00                        | 0.00            | 0.00        | 8,192.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,300.00                        | 0.00            | 0.00        | 8,292.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,400.00                        | 0.00            | 0.00        | 8,392.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,500.00                        | 0.00            | 0.00        | 8,492.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,512.56                        | 0.00            | 0.00        | 8,505.00            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| <b>Lower Green River (TGR3)</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 8,600.00                        | 0.00            | 0.00        | 8,592.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,700.00                        | 0.00            | 0.00        | 8,692.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,800.00                        | 0.00            | 0.00        | 8,792.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 8,900.00                        | 0.00            | 0.00        | 8,892.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,000.00                        | 0.00            | 0.00        | 8,992.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,100.00                        | 0.00            | 0.00        | 9,092.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,177.56                        | 0.00            | 0.00        | 9,170.00            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| <b>CP70</b>                     |                 |             |                     |            |            |                       |                       |                      |                     |
| 9,200.00                        | 0.00            | 0.00        | 9,192.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |



|                  |                             |                                     |                                    |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | Ryan USA                    | <b>Local Co-ordinate Reference:</b> | Well 3-27A1E                       |
| <b>Company:</b>  | EP Energy E&P Company, L.P. | <b>TVD Reference:</b>               | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Project:</b>  | Duchesne Co, UT             | <b>MD Reference:</b>                | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Site:</b>     | Murray 3-27A1E              | <b>North Reference:</b>             | True                               |
| <b>Well:</b>     | 3-27A1E                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                 |                                     |                                    |
| <b>Design:</b>   | Design #1                   |                                     |                                    |

| Planned Survey           |                 |             |                     |            |            |                       |                       |                      |                     |
|--------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)      | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 9,300.00                 | 0.00            | 0.00        | 9,292.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,400.00                 | 0.00            | 0.00        | 9,392.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,500.00                 | 0.00            | 0.00        | 9,492.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,522.56                 | 0.00            | 0.00        | 9,515.00            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| <b>Wasatch (W090TU2)</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 9,600.00                 | 0.00            | 0.00        | 9,592.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,657.56                 | 0.00            | 0.00        | 9,650.00            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,700.00                 | 0.00            | 0.00        | 9,692.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,800.00                 | 0.00            | 0.00        | 9,792.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 9,900.00                 | 0.00            | 0.00        | 9,892.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,000.00                | 0.00            | 0.00        | 9,992.44            | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,100.00                | 0.00            | 0.00        | 10,092.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,200.00                | 0.00            | 0.00        | 10,192.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,300.00                | 0.00            | 0.00        | 10,292.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,400.00                | 0.00            | 0.00        | 10,392.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,500.00                | 0.00            | 0.00        | 10,492.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,600.00                | 0.00            | 0.00        | 10,592.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,700.00                | 0.00            | 0.00        | 10,692.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,800.00                | 0.00            | 0.00        | 10,792.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 10,900.00                | 0.00            | 0.00        | 10,892.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,000.00                | 0.00            | 0.00        | 10,992.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,100.00                | 0.00            | 0.00        | 11,092.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,200.00                | 0.00            | 0.00        | 11,192.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,300.00                | 0.00            | 0.00        | 11,292.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,400.00                | 0.00            | 0.00        | 11,392.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,500.00                | 0.00            | 0.00        | 11,492.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,600.00                | 0.00            | 0.00        | 11,592.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,700.00                | 0.00            | 0.00        | 11,692.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,800.00                | 0.00            | 0.00        | 11,792.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 11,900.00                | 0.00            | 0.00        | 11,892.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,000.00                | 0.00            | 0.00        | 11,992.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,100.00                | 0.00            | 0.00        | 12,092.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,200.00                | 0.00            | 0.00        | 12,192.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,300.00                | 0.00            | 0.00        | 12,292.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,400.00                | 0.00            | 0.00        | 12,392.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,500.00                | 0.00            | 0.00        | 12,492.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,600.00                | 0.00            | 0.00        | 12,592.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,700.00                | 0.00            | 0.00        | 12,692.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,800.00                | 0.00            | 0.00        | 12,792.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 12,900.00                | 0.00            | 0.00        | 12,892.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,000.00                | 0.00            | 0.00        | 12,992.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,100.00                | 0.00            | 0.00        | 13,092.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,200.00                | 0.00            | 0.00        | 13,192.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,300.00                | 0.00            | 0.00        | 13,292.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,400.00                | 0.00            | 0.00        | 13,392.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,500.00                | 0.00            | 0.00        | 13,492.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,600.00                | 0.00            | 0.00        | 13,592.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,700.00                | 0.00            | 0.00        | 13,692.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,800.00                | 0.00            | 0.00        | 13,792.44           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| 13,907.56                | 0.00            | 0.00        | 13,900.00           | -77.37     | 137.57     | 157.84                | 0.00                  | 0.00                 | 0.00                |
| <b>TD at 13907.56</b>    |                 |             |                     |            |            |                       |                       |                      |                     |





|                  |                             |                                     |                                    |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | Ryan USA                    | <b>Local Co-ordinate Reference:</b> | Well 3-27A1E                       |
| <b>Company:</b>  | EP Energy E&P Company, L.P. | <b>TVD Reference:</b>               | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Project:</b>  | Duchesne Co, UT             | <b>MD Reference:</b>                | RKB=32.5 @ 5344.50ft (Nabors X-21) |
| <b>Site:</b>     | Murray 3-27A1E              | <b>North Reference:</b>             | True                               |
| <b>Well:</b>     | 3-27A1E                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                 |                                     |                                    |
| <b>Design:</b>   | Design #1                   |                                     |                                    |

| Design Targets            |           |          |           |        |        |               |               |                    |                     |
|---------------------------|-----------|----------|-----------|--------|--------|---------------|---------------|--------------------|---------------------|
| Target Name               | Dip Angle | Dip Dir. | TVD       | +N/-S  | +E/-W  | Northing      | Easting       | Latitude           | Longitude           |
| - hit/miss target         | (°)       | (°)      | (ft)      | (ft)   | (ft)   | (usft)        | (usft)        |                    |                     |
| - Shape                   |           |          |           |        |        |               |               |                    |                     |
| 3-27A1E - BHL             | 0.00      | 0.00     | 13,900.00 | -77.37 | 137.57 | 7,308,553.321 | 2,094,268.973 | 40° 22' 21.06476 N | 109° 52' 15.50280 W |
| - plan hits target center |           |          |           |        |        |               |               |                    |                     |
| - Point                   |           |          |           |        |        |               |               |                    |                     |

| Casing Points  |                |            |  |                 |               |
|----------------|----------------|------------|--|-----------------|---------------|
| Measured Depth | Vertical Depth | Name       |  | Casing Diameter | Hole Diameter |
| (ft)           | (ft)           |            |  | (")             | (")           |
| 4,000.00       | 4,000.00       | 9 5/8"     |  | 9-5/8           | 12-1/4        |
| 9,657.56       | 9,650.00       | 7"         |  | 7               | 7-1/2         |
| 13,907.56      | 13,900.00      | Production |  | 0               | 0             |

| Formations     |                |                          |  |           |     |               |
|----------------|----------------|--------------------------|--|-----------|-----|---------------|
| Measured Depth | Vertical Depth | Name                     |  | Lithology | Dip | Dip Direction |
| (ft)           | (ft)           |                          |  |           | (°) | (°)           |
| 2,545.00       | 2,545.00       | Base MSGW                |  |           |     |               |
| 5,283.26       | 5,283.00       | Green River (GRRV)       |  |           |     |               |
| 6,444.48       | 6,438.00       | Green River (GRTN1)      |  |           |     |               |
| 7,256.56       | 7,249.00       | Mahogany Bench           |  |           |     |               |
| 8,512.56       | 8,505.00       | Lower Green River (TGR3) |  |           |     |               |
| 9,177.56       | 9,170.00       | CP70                     |  |           |     |               |
| 9,522.56       | 9,515.00       | Wasatch (W090TU2)        |  |           |     |               |

| Plan Annotations |                |                   |        |                  |  |
|------------------|----------------|-------------------|--------|------------------|--|
| Measured Depth   | Vertical Depth | Local Coordinates |        | Comment          |  |
| (ft)             | (ft)           | +N/-S             | +E/-W  |                  |  |
| (ft)             | (ft)           | (ft)              | (ft)   |                  |  |
| 5,000.00         | 5,000.00       | 0.00              | 0.00   | Start Build 1.50 |  |
| 6,505.45         | 6,498.63       | -10.31            | 18.34  | Start Drop -1.50 |  |
| 13,907.56        | 13,900.00      | -67.06            | 119.23 | TD at 13907.56   |  |



May 10, 2016

Mr. Brad Hill  
Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84116-5801

RE: Directional Well  
**Murray 3-27A1E**  
Surface Hole Location: 724' FNL, 1962' FWL (NENW) Section 27-1S-1E  
Bottom Hole Location: 800' FNL, 2100' FWL (NENW) Section 27-1S-1E  
U.S.B.&M. Uintah County, Utah

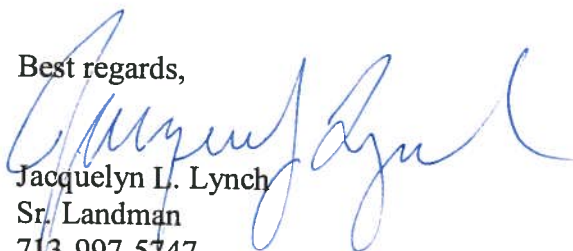
Dear Mr. Hill,

As a supplement to EP Energy E&P Company, L.P.'s ("EPE") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rule R649-3-11.1.2, which pertains to directionally drilling locations outside the tolerances set forth by the appropriate board order.

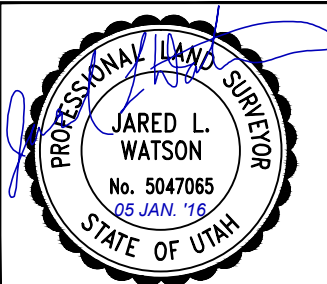
This well is being drilled in Section 27, Township 1 South, Range 1 East, USM, Uintah County, Utah, which is subject to that Cause No. 121-32 effective August 26, 1977. This order establishes Section 27 as a 520 acre drilling unit for production from the Green River-Wasatch formation. In Cause No. 139-42 and Cause No. 139-84, the Board further ordered that wells be greater than 660 feet from the exterior boundary of the unit, the subject well will bottom hole 782' from the unit boundary.

We plan to drill the above referenced well as a directional well to comply with the spacing requirements. EPE certifies that unless first obtaining an exception to the location and siting requirements set forth in Cause No. 139-42 and Cause No. 139-84, it will not perforate any part of the lbore of the subject well that is closer than 660' from the drilling unit boundary.

Best regards,



Jacquelyn L. Lynch  
Sr. Landman  
713-997-5747  
[Jacquelyn.Lynch@EpEnergy.com](mailto:Jacquelyn.Lynch@EpEnergy.com)



**EP ENERGY**

A horizontal axis with tick marks at 0, 500, and 1000. A red arrow points to the right from the 0 mark. The word "HORIZONTAL" is written below the axis.

1



Alexis Huefner &lt;alexishuefner@utah.gov&gt;

---

**24hr Notice Spudding 17 1/2" Conductor II section on Murray 3-27A1E**

1 message

**LANDRIG009 (Nabors X21) <LANDRIG009@epenergy.com>**

Mon, May 9, 2016 at 11:17 AM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "Baker, Brent L" <Brent.Baker@epenergy.com>, Chris Jensen <chrisjensen@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Mares, Sergio I" <Sergio.Mares@epenergy.com>, BLM <blm\_ut\_vn\_opreport@blm.gov>

RE: EP ENERGY

Murray 3-27A1E

API # 43047554770000

BLUEBELL FIELD

UINTAH COUNTY

724 FNL 1962 FWL

NW NW 27 1S 1E

Leon Ross Drilling plans to spud at 08:00 hours on 05/10/2016. We project running and cementing 13 3/8" Conductor II Casing to 500' on 05/14/2016.

**CONFIDENTIAL**

Regard,

Perry Evans / Tony Wilkerson

EP Energy LLC

Nabors X21

Rig: 713-997-1220

Cell: 435-823-1725

---

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.



RECEIVED

OCT 30 2015

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT BLM VERNAL UTAH


## APPLICATION FOR PERMIT TO DRILL OR REENTER

|                                                                                                                                                                                                                        |  |                                                          |                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------|---------------------------------------------------------|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER                                                                                                                           |  | <b>CONFIDENTIAL</b>                                      | 5. Lease Serial No.<br>1420H622662                      |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |  |                                                          | 6. If Indian, Allottee or Tribe Name                    |
| 2. Name of Operator<br>EL PASO E&P COMPANY LP                                                                                                                                                                          |  | Contact: MARIA GOMEZ<br>E-Mail: maria.gomez@epenergy.com | 7. If Unit or CA Agreement, Name and No.                |
| 3a. Address<br>PO BOX 4660<br>HOUSTON, TX 77210                                                                                                                                                                        |  | 3b. Phone No. (include area code)<br>Ph: 713-997-5038    | 8. Lease Name and Well No.<br>MURRAY 3-27A1E            |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface NENW 724FNL 1962FWL<br>At proposed prod. zone NENW 724FNL 1962FWL                                         |  | 9. API Well No.<br>43-847-55477                          | 10. Field and Pool, or Exploratory<br>ALTAMONT/BLUEBELL |
| 14. Distance in miles and direction from nearest town or post office*<br>15.3 MILES                                                                                                                                    |  | 12. County or Parish<br>UINTAH                           | 13. State<br>UT                                         |
| 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)<br>724'                                                                                           |  | 16. No. of Acres in Lease<br>440.00                      | 17. Spacing Unit dedicated to this well<br>80.00        |
| 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.<br>1500'                                                                                                     |  | 19. Proposed Depth<br>13900 MD<br>13900 TVD              | 20. BLM/BIA Bond No. on file<br>RLB0009692              |
| 21. Elevations (Show whether DF, KB, RT, GL, etc.)<br>5312 GL                                                                                                                                                          |  | 22. Approximate date work will start<br>02/01/2016       | 23. Estimated duration<br>60                            |

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

|                                                                                                                |                                                      |                     |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------|
| 25. Signature<br>(Electronic Submission)                                                                       | Name (Printed/Typed)<br>MARIA GOMEZ Ph: 713-997-5038 | Date<br>10/29/2015  |
| Title<br>AUTHORIZED REPRESENTATIVE                                                                             |                                                      |                     |
| Approved by (Signature)<br> | Name (Printed/Typed)<br>Jerry Kenczka                | Date<br>APR 01 2016 |
| Title<br>Assistant Field Manager<br>Lands & Mineral Resources                                                  | Office<br>VERNAL FIELD OFFICE                        |                     |

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

## CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Additional Operator Remarks (see next page)

Electronic Submission #321971 verified by the BLM Well Information System  
For EL PASO E&P COMPANY LP, sent to the Vernal  
Committed to AFMSS for processing by STEVE HIRSCHI on 11/03/2015 ()

RECEIVED

MAY 06 2016

## NOTICE OF APPROVAL

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OIL, GAS &amp; MINING

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: EP ENERGY E&P COMPANY LP  
Well No: MURRAY 3-27A1E  
API No: 43-047-55477

Location: NENW SEC. 27 T01S R01E  
Lease No: 1420H622662  
Agreement:

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

|                                                                                                       |                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Activity<br>(Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)   | - The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.                                      |
| Construction Completion<br>(Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist) | - Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig. |
| Spud Notice<br>(Notify BLM Petroleum Engineer)                                                        | - Twenty-Four (24) hours prior to spudding the well.                                                                                                                                                                                             |
| Casing String & Cementing<br>(Notify BLM Supv. Petroleum Tech.)                                       | - Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a> .                                                                               |
| BOP & Related Equipment Tests<br>(Notify BLM Supv. Petroleum Tech.)                                   | - Twenty-Four (24) hours prior to initiating pressure tests.                                                                                                                                                                                     |
| First Production Notice<br>(Notify BLM Petroleum Engineer)                                            | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.                                                                                                   |

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

- The conditions of approval, as set forth by the surface owners and/or agencies, shall be adhered to
- Tier II or better drilling rig engines
- Stationary internal combustion engine standard of 2g NOx/bhp-hr for engines <300HP and 1g NOx/bhp-hr for engines >300HP
- Low bleed or no bleed pneumatic pump valves
- Dehydrator VOC emission controls to +95% efficiency
- Tank VOC emission controls to +95% efficiency
- The proponent shall comply with all applicable air quality regulations promulgated by the Utah Division of Air Quality, and/or the Environmental Protection Agency
- The proponent will utilize a closed drilling system

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

1. A 200' overlap of cement is required for each casing string to the prior casing shoe
2. Run a CBL on the 9 5/8 in casing from the shoe to TOC if cement does not circulate
3. Variances granted as requested in the drilling plan for air drilling the 9.625 casing

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).



- The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
- The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
- Unit agreement and/or participating area name and number, if applicable.
- Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

|                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>FORM 9</b>                                                 |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>1420H622662 |
|                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE           |
|                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>7. UNIT or CA AGREEMENT NAME:</b>                          |
| <b>1. TYPE OF WELL</b><br>Oil Well                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>8. WELL NAME and NUMBER:</b><br>Murray 3-27A1E             |
| <b>2. NAME OF OPERATOR:</b><br>EP ENERGY E&P COMPANY, L.P.                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>9. API NUMBER:</b><br>43047554770000                       |
| <b>3. ADDRESS OF OPERATOR:</b><br>1001 Louisiana , Houston, TX, 77002                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>9. FIELD and POOL or WILDCAT:</b><br>BLUEBELL              |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0724 FNL 1962 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NENW Section: 27 Township: 01.0S Range: 01.0E Meridian: U                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>COUNTY:</b><br>UINTAH                                      |
|                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>STATE:</b><br>UTAH                                         |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |
| <b>TYPE OF SUBMISSION</b>                                                                                                                                                                                                                                                                                         | <b>TYPE OF ACTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               |
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:<br><br><input type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br><br><input type="checkbox"/> SPUD REPORT<br>Date of Spud:<br><br><input checked="" type="checkbox"/> DRILLING REPORT<br>Report Date:<br>5/15/2016 | <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE<br/><br/> <input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br/><br/> <input type="checkbox"/> CHANGE WELL STATUS<br/><br/> <input type="checkbox"/> DEEPEN<br/><br/> <input type="checkbox"/> OPERATOR CHANGE<br/><br/> <input type="checkbox"/> PRODUCTION START OR RESUME<br/><br/> <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br/><br/> <input type="checkbox"/> TUBING REPAIR<br/><br/> <input type="checkbox"/> WATER SHUTOFF<br/><br/> <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING<br/><br/> <input type="checkbox"/> CHANGE TUBING<br/><br/> <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br/><br/> <input type="checkbox"/> FRACTURE TREAT<br/><br/> <input type="checkbox"/> PLUG AND ABANDON<br/><br/> <input type="checkbox"/> RECLAMATION OF WELL SITE<br/><br/> <input type="checkbox"/> SIDETRACK TO REPAIR WELL<br/><br/> <input type="checkbox"/> VENT OR FLARE<br/><br/> <input type="checkbox"/> SI TA STATUS EXTENSION<br/><br/> <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR<br/><br/> <input type="checkbox"/> CHANGE WELL NAME<br/><br/> <input type="checkbox"/> CONVERT WELL TYPE<br/><br/> <input type="checkbox"/> NEW CONSTRUCTION<br/><br/> <input type="checkbox"/> PLUG BACK<br/><br/> <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br/><br/> <input type="checkbox"/> TEMPORARY ABANDON<br/><br/> <input type="checkbox"/> WATER DISPOSAL<br/><br/> <input type="checkbox"/> APD EXTENSION<br/><br/>         OTHER: <input style="width: 100%;" type="text"/> </div> </div> |                                                               |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.<br>See the attached daily drilling operations summary report. Spud date 05/15/2016.                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |
| Accepted by the<br>Utah Division of<br>Oil, Gas and Mining<br><b>FOR RECORD ONLY</b><br>July 06, 2016                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |
| <b>NAME (PLEASE PRINT)</b><br>Linda Renken                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>PHONE NUMBER</b><br>713 997-5138                           |
| <b>SIGNATURE</b><br>N/A                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>TITLE</b><br>Sr. Regulatory Analyst                        |
|                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>DATE</b><br>7/6/2016                                       |

## CENTRAL DIVISION

ALTAMONT FIELD  
MURRAY 3-27A1E  
MURRAY 3-27A1E  
DRILLING LAND

### Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

## 1 General

### 1.1 Customer Information

|                |                  |
|----------------|------------------|
| Company        | CENTRAL DIVISION |
| Representative |                  |
| Address        |                  |

### 1.2 Well Information

|                     |                                        |          |                |
|---------------------|----------------------------------------|----------|----------------|
| Well                | MURRAY 3-27A1E                         |          |                |
| Project             | ALTAMONT FIELD                         | Site     | MURRAY 3-27A1E |
| Rig Name/No.        | NABORS DRILLING/X21                    | Event    | DRILLING LAND  |
| Start date          | 5/31/2016                              | End date | 6/27/2016      |
| Spud Date/Time      | 6/2/2016                               | UWI      | MURRAY 3-27A1E |
| Active datum        | KB @5,344.5usft (above Mean Sea Level) |          |                |
| Afe No./Description | 156833/56768 / MURRAY 3-27A1E          |          |                |

## 2 Summary

### 2.1 Operation Summary

| Date      | Time Start-End | Duration (hr) | Phase   | Activity Code | Sub | OP Code | MD from (usft) | Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|----------------|---------------|---------|---------------|-----|---------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5/16/2016 | 6:00 6:00      | 24.00         | CASCOND | 24            |     | P       | 547.5          | NOTE : ALL DEPTHS ADJUSTED +32.5' FOR NABORS X21 RKB. LEON ROSS DRILLING RIG #35 SET 72.5' 20" CONDUCTOR. SET MOUSE HOLE @ 97.5'. LEON ROSS DRILLING RIG #36 DRILLED 17½" HOLE TO 547.5'. RAN 12 JTS 13-3/8" 54.5# J-55 ST&C. LANDED FS @ 535.5' & FC @ 490.5'. PROPETRO PUMPED 60 BBLS FW, 40 BBL GEL & 625 SXS (128 BBLS) 625 SX 15.8 PPG 1.15 Y PREMIUM G CEMENT. DROPPED TOP PLUG. DISPLACED W/ 77 BBLS OF FW @ 3 BPM. BUMPED PLUG T/ 800 PSI. FLOATS HELD. HAD 63 BBLS CMT T/ SURFACE. CMT OPERATIONS OBSERVED BY UDOGM (RICHARD POWELL). RD & RELEASED LEON ROSS DRILLING & PROPETRO. |
| 5/30/2016 | 6:00 6:00      | 24.00         | MIRU    | 01            |     | P       | 547.5          | MI & RU. 70% MOVED IN. 10% RIGGED UP. RAFTER BAR 3 WELDING INSTALLED 13 5/8" 5M X 13 3/8" SOW HEAD & BASE PLATE. TESTED HEAD TO 1,000 PSI / 20 MIN.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6/1/2016  | 6:00 6:00      | 24.00         | MIRU    | 01            |     | P       | 547.0          | MIRU. 97% MI. 70% RU.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6/2/2016  | 6:00 2:00      | 20.00         | MIRU    | 01            |     | P       | 547.0          | MIRU. 100% MI. 100% RU. PERFORMED S&E INSPECTION. RIG ON FULL DAYRATE @ 02:00 06/02/2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|           | 2:00 5:00      | 3.00          | CASCOND | 28            |     | P       | 547.0          | NU BOPE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|           | 5:00 6:00      | 1.00          | CASCOND | 30            |     | P       | 547.0          | RU & TESTED 13-5/8" 10M ANNULAR TO 250 / 2,500 PSI AND REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 5,000 PSI.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6/3/2016  | 6:00 10:30     | 4.50          | CASCOND | 19            |     | P       | 547.0          | TESTED 13-5/8" 10M ANNULAR TO 250 / 2,500 PSI AND REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 5,000 PSI.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           | 10:30 11:00    | 0.50          | CASCOND | 31            |     | P       | 547.0          | TEST CSG TO 1,000 PSI FOR 30 MIN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|           | 11:00 13:00    | 2.00          | CASCOND | 11            |     | P       | 547.0          | RU & RAN GYRO TO 491'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|           | 13:00 13:30    | 0.50          | CASCOND | 19            |     | P       | 547.0          | PERFORMED ACCUMULATOR FUNCTION TEST WITH WEATHERFORD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|           | 13:30 18:30    | 5.00          | CASCOND | 14            |     | P       | 547.0          | PU 12¼" DIRECTIONAL BHA TO 458', TAG CEMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|           | 18:30 19:00    | 0.50          | CASCOND | 12            |     | P       |                | SERVICE RIG & TDU.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|           | 19:00 21:00    | 2.00          | CASCOND | 32            |     | P       | 547.0          | DRILL OUT FE & SHOE TRACK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|           | 21:00 23:30    | 2.50          | DRLSURF | 07            |     | P       | 547.0          | DRILLED 547' - 850'. SPUD @ 21:00 HRS 6/2/2016.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|           | 23:30 0:00     | 0.50          | DRLSURF | 42            |     | P       | 850.0          | INSTALL ROTATING HEAD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6/4/2016  | 0:00 6:00      | 6.00          | DRLSURF | 07            |     | P       | 850.0          | DRILLED 850' - 1,685'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|           | 6:00 2:00      | 20.00         | DRLSURF | 07            |     | P       | 1,685.0        | DRILLED 1,685' - 4,030'. TD SURFACE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|           | 2:00 3:00      | 1.00          | CASSURF | 15            |     | P       | 4,030.0        | CBU X 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|           | 3:00 6:00      | 3.00          | CASSURF | 13            |     | P       | 4,030.0        | WIPER TRIP. PUMP OUT TO 2,980'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



## 2.1 Operation Summary (Continued)

| Date     | Time<br>Start-End | Duration<br>(hr) | Phase   | Activity<br>Code | Sub | OP<br>Code | MD from<br>(usft) | Operation                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|-------------------|------------------|---------|------------------|-----|------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/5/2016 | 6:00 11:00        | 5.00             | CASSURF | 13               |     | P          | 4,030.0           | POOH, LD DIRECTIONAL TOOLS. PULLED TIGHT 3,271' - 1,468'.                                                                                                                                                                                                                                                                                                                                                                                             |
|          | 11:00 14:00       | 3.00             | CASSURF | 13               |     | P          | 4,030.0           | MU 12-1/4" RR BIT & TIH TO 4,030'. REAMED 2,150' - 2,197'.                                                                                                                                                                                                                                                                                                                                                                                            |
|          | 14:00 15:30       | 1.50             | CASSURF | 15               |     | P          | 4,030.0           | CBU x 2.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|          | 15:30 19:00       | 3.50             | CASSURF | 13               |     | P          | 4,030.0           | POOH, LD 8" DC & BIT.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|          | 19:00 1:30        | 6.50             | CASSURF | 24               |     | P          | 4,030.0           | PJSM. RU & RUN FLOAT SHOE, ONE JT OF 9 5/8" 40# LT&C N80 CASING, FLOAT COLLAR, 90 JT'S OF 9 5/8" 40# LT&C N80 CASING. 4,030'. FS @ 4,030', FC @ 3,982'. RD CSG TOOLS. SCOTT MONTGOMERY & GLAD RICH WITH BLM ON LOCATION TO WITNESS START OF CSG RUN.                                                                                                                                                                                                  |
|          | 1:30 3:00         | 1.50             | CASSURF | 15               |     | P          | 4,030.0           | CIRCULATE.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|          | 3:00 6:00         | 3.00             | CASSURF | 25               |     | P          | 4,030.0           | PJSM. RU & PUMPED 50 BBLS H2O, 680 SKS ( 276 BBLS ) 12 PPG EXTENDACEM CMT @ 2.28 YLD TAILED WITH 450 SKS ( 102 BBLS ) 14.3 PPG HALCEM CMT @ 1.27 YLD. DROPPED PLUG & DISPLACED WITH 304 BBLS 10.5 PPG MUD @ 8 BPM. 2 BBL OVER, DID NOT BUMP. 773 FINAL PUMP PRESSURE. BLEED OFF PRESSURE, .75 BBLS BACK , FLOATS HELD. 80 BBLS WEIGHTED CMT TO SURFACE. SHUT IN @ 05:45 HRS. SCOTT MONTGOMERY & GLAD RICH WITH BLM ON LOCATION TO WITNESS CEMENT JOB. |
| 6/6/2016 | 6:00 12:00        | 6.00             | CASSURF | 26               |     | P          | 4,030.0           | WOC.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|          | 12:00 13:00       | 1.00             | CASSURF | 29               |     | P          | 4,030.0           | ND 13-5/8" 10M BOPE.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|          | 13:00 18:00       | 5.00             | CASSURF | 27               |     | P          | 4,030.0           | ROUGH CUT & LD CSG JOINT. REMOVED 13 3/8" X 13 5/8" 5M HEAD. MADE FINAL CUT ON 9 5/8" CSG. WELDED ON 9 5/8" SOW X 11" 10M MULTI BOWL HEAD. TESTED HEAD 2,000 PSI FOR 10 MINS.                                                                                                                                                                                                                                                                         |
|          | 18:00 21:00       | 3.00             | CASSURF | 28               |     | P          | 4,030.0           | NU B-SECTION, DSA, & 13 5/8" BOPE. WFT TORQUED BOLTS.                                                                                                                                                                                                                                                                                                                                                                                                 |
|          | 21:00 3:00        | 6.00             | CASSURF | 30               |     | P          | 4,030.0           | INSERTED TEST PLUG. TEST BOPE 250 / 5,000 PSI. ANNULAR 4,000 PSI.                                                                                                                                                                                                                                                                                                                                                                                     |
|          | 3:00 3:30         | 0.50             | CASSURF | 31               |     | P          | 4,030.0           | TEST CASING 2,500 PSI FOR 30 MIN.                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          | 3:30 4:30         | 1.00             | DRLINT1 | 13               |     | P          | 4,030.0           | MU DIRECTIONAL BHA.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 6/7/2016 | 4:30 6:00         | 1.50             | DRLINT1 | 42               |     | N          | 4,030.0           | SHALE SHAKER PLUGGED WITH CEMENT. CLEAN CEMENT OUT OF SHALE SHAKER.                                                                                                                                                                                                                                                                                                                                                                                   |
|          | 6:00 8:00         | 2.00             | CASSURF | 13               |     | P          | 4,030.0           | TIH TO 3,976' TAG CMT.                                                                                                                                                                                                                                                                                                                                                                                                                                |
|          | 8:00 9:00         | 1.00             | CASSURF | 32               |     | P          | 4,030.0           | DRILL OUT FE, SHOE TRACK & 10'.                                                                                                                                                                                                                                                                                                                                                                                                                       |
|          | 9:00 10:00        | 1.00             | CASSURF | 33               |     | P          | 4,030.0           | CBU & PERFORM FIT TO 15.4 EMW WITH 9.5 PPG MUD @ 1,240 PSI.                                                                                                                                                                                                                                                                                                                                                                                           |
|          | 10:00 18:00       | 8.00             | CASSURF | 68               |     | N          | 4,040.0           | SHUT DOWN DUE TO HIGH WATER BLOCKING LOCATION ACCESS. RUNNING CLOSED LOOP SYSTEM UNABLE TO TRANSPORT CUTTING TO DISPOSAL.                                                                                                                                                                                                                                                                                                                             |
|          | 18:00 6:00        | 12.00            | DRLINT1 | 08               |     | P          | 4,040.0           | DRILLED 4,030' - 5,355'.                                                                                                                                                                                                                                                                                                                                                                                                                              |
|          | 6:00 17:30        | 11.50            | DRLINT1 | 08               |     | P          | 5,355.0           | DRILLED 5,355' - 5,897'. LOST 46 BBLS @ 5,745', LOSSES STOPPED BEFORE LCM CLEARED BIT.                                                                                                                                                                                                                                                                                                                                                                |
| 6/8/2016 | 17:30 18:00       | 0.50             | DRLINT1 | 12               |     | P          | 5,897.0           | SERVICED RIG.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|          | 18:00 0:30        | 6.50             | DRLINT1 | 08               |     | P          | 5,897.0           | DRILLED 5,897' - 6,085'. ROP DECREASED TO 20 FPH.                                                                                                                                                                                                                                                                                                                                                                                                     |
|          | 0:30 6:00         | 5.50             | DRLINT1 | 13               |     | P          | 5,897.0           | TOOH. BACK-REAMED TWO TIGHT SPOTS ON FIRST 5 STANDS. SWABBING TOO MUCH TO PULL WITHOUT PUMPING. DEPTH @ REPORT TIME APPROX 2800'.                                                                                                                                                                                                                                                                                                                     |
|          | 6:00 6:30         | 0.50             | DRLINT1 | 15               |     | P          | 6,085.0           | CIRC / ROTATE / WORK DP @ 2800' TO CLEAN BIT / BHA & ELIMINATE SWABBING.                                                                                                                                                                                                                                                                                                                                                                              |
| 6/9/2016 | 6:30 8:00         | 1.50             | DRLINT1 | 13               |     | P          | 6,085.0           | POOH WET W/ HOLE TAKING REQUIRED FILL VOLUMES.                                                                                                                                                                                                                                                                                                                                                                                                        |
|          | 8:00 8:30         | 0.50             | DRLINT1 | 42               |     | P          | 6,085.0           | PULLED ROTATING HEAD ELEMENT & INSTALLED TRIP NIPPLE. FLOW CHECKED (NO FLOW).                                                                                                                                                                                                                                                                                                                                                                         |
|          | 8:30 11:00        | 2.50             | DRLINT1 | 13               |     | P          | 6,085.0           | POOH W/ BHA. BIT WAS IN GOOD CONDITION. LD WEAK MTR. PU NEW NABORS 6 3/4" 7/8 LOBE 5 STAGE .29 RPG 1.5 DEG FH MTR. TESTED MTR & MWD. INSTALLED NEW 8 3/4" SECURITY MM64D BIT. TIH W/ BHA.                                                                                                                                                                                                                                                             |
|          | 11:00 11:30       | 0.50             | DRLINT1 | 42               |     | P          | 6,085.0           | PULLED TRIP NIPPLE & INSTALLED ROTATING HEAD ELEMENT.                                                                                                                                                                                                                                                                                                                                                                                                 |
|          | 11:30 16:00       | 4.50             | DRLINT1 | 13               |     | P          | 6,085.0           | TIH. REAMED TIGHT HOLE 5145' - 5215', 5515' - 5610'. REAMED FOR SAFETY 6000' - 6085'.                                                                                                                                                                                                                                                                                                                                                                 |

## 2.1 Operation Summary (Continued)

| Date      | Time<br>Start-End | Duration<br>(hr) | Phase   | Activity<br>Code | Sub | OP<br>Code | MD from<br>(usft) | Operation                                                                                                                                                                                                                                                         |
|-----------|-------------------|------------------|---------|------------------|-----|------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | 16:00 17:30       | 1.50             | DRLINT1 | 08               |     | P          | 6,085.0           | DRILLED F/ 6085' T/ 6245'.                                                                                                                                                                                                                                        |
|           | 17:30 18:00       | 0.50             | DRLINT1 | 12               |     | P          | 6,245.0           | SERVICED RIG & TD.                                                                                                                                                                                                                                                |
|           | 18:00 6:00        | 12.00            | DRLINT1 | 08               |     | P          | 6,245.0           | DRILLED 6,245 - 6,920'. NO MUD LOST.                                                                                                                                                                                                                              |
| 6/10/2016 | 6:00 17:30        | 11.50            | DRLINT1 | 08               |     | P          | 6,920.0           | DRILLED F/ 6920' T/ 7615'. LOST 40 TO 50 BBLs AT DIFFERING DEPTHS.                                                                                                                                                                                                |
|           | 17:30 18:00       | 0.50             | DRLINT1 | 12               |     | P          | 7,615.0           | SERVICED RIG & TD.                                                                                                                                                                                                                                                |
|           | 18:00 6:00        | 12.00            | DRLINT1 | 08               |     | P          | 7,615.0           | DRILLED 7,615 - 7,985'. LOST 60 BBLs NEAR 7,635'.                                                                                                                                                                                                                 |
| 6/11/2016 | 6:00 17:30        | 11.50            | DRLINT1 | 08               |     | P          | 7,985.0           | DRILLED F/ 7985' T/ 8478'. MINIMAL MUD LOSS.                                                                                                                                                                                                                      |
|           | 17:30 18:00       | 0.50             | DRLINT1 | 12               |     | P          | 8,478.0           | SERVICED RIG & TD.                                                                                                                                                                                                                                                |
|           | 18:00 6:00        | 12.00            | DRLINT1 | 08               |     | P          | 8,478.0           | DRILLED 8,478 - 9,000'. NO MUD LOST.                                                                                                                                                                                                                              |
| 6/12/2016 | 6:00 11:00        | 5.00             | DRLINT1 | 08               |     | P          | 9,000.0           | DRILLED F/ 9000' T/ 9150'. LOST COMPLETE RETURNS. REDUCED PUMP RATE T/ 425 GPM. PUMPED (2) 40 BBL 30 PPB LCM PILLS. LOST 300 BBL 9.9 PPG MUD BEFORE REGAINING RETURNS. DRILLED F/ 9150' T/ 9175' LOSING MUD @ 100 BPH.                                            |
|           | 11:00 12:00       | 1.00             | DRLINT1 | 52               |     | N          | 9,175.0           | SHUT DN PUMPS. WORKED PIPE. BUILT VOLUME IN PITS. CUT MW F/ 9.9 PPG T/ 9.7 PPG.                                                                                                                                                                                   |
|           | 12:00 18:00       | 6.00             | DRLINT1 | 08               |     | P          | 9,175.0           | DRILLED F/ 9175' T/ 9310'. PUMP RATE 425 GPM T/ 500 GPM W/ MINIMAL T/ INTERMITTENT MUD LOSSES.                                                                                                                                                                    |
| 6/13/2016 | 18:00 6:00        | 12.00            | DRLINT1 | 08               |     | P          | 9,310.0           | DRILLED 9,310 - 9,550'. NO MUD LOST.                                                                                                                                                                                                                              |
|           | 6:00 10:30        | 4.50             | DRLINT1 | 08               |     | P          | 9,550.0           | DRILLED 9,550 - 9,638' ICP. SLIGHT MUD LOSSES.                                                                                                                                                                                                                    |
|           | 10:30 12:30       | 2.00             | DRLINT1 | 15               |     | P          | 9,638.0           | C&C 9.8 MUD AT 8 BPM. SLIGHT MUD LOSSES.                                                                                                                                                                                                                          |
|           | 12:30 16:00       | 3.50             | CASINT1 | 13               |     | P          | 9,638.0           | TOOH AT 60 FPM INTO CSG AT 9,628'. HOLE FILL 1 BBL > CALCULATED FILL VOLUME PER (5) STANDS. HOLE SLICK.                                                                                                                                                           |
|           | 16:00 19:00       | 3.00             | CASINT1 | 13               |     | P          | 9,638.0           | TIH SLICK AT 70 FPM. NEAR FULL RETURNS. BROKE CIRC THRICE... 5600', 7250', 9,000'.                                                                                                                                                                                |
|           | 19:00 22:30       | 3.50             | CASINT1 | 15               |     | P          | 9,638.0           | C&C MUD @ 4, 6, THEN 8 BPM FOR LOGGING / CSG OPERATIONS. TRIP GAS 2,298 UNITS (MUD LOGGER) W/ MC 9.8 TO 9.0 PPG. GAS DROPPED AFTER 30 MINUTES.                                                                                                                    |
| 6/14/2016 | 22:30 6:00        | 7.50             | CASINT1 | 14               |     | P          | 9,638.0           | LAID DOWN 5" DP & BHA. HOLE FILL WAS 1 BBL > CALCULATED HOLE FILL.                                                                                                                                                                                                |
|           | 6:00 8:00         | 2.00             | CASINT1 | 14               |     | P          | 9,638.0           | LD DCs, DIRECTIONAL TOOLS, & BIT. CLEARED RIG FLOOR OF TOOLS.                                                                                                                                                                                                     |
|           | 8:00 13:30        | 5.50             | EVLINT1 | 22               |     | P          | 9,638.0           | PJSM. RU HES LOGGING UNIT. RIH, UNABLE TO GO BELOW 8,037'. LOGGED QUAD-COMBO 8,037' - 4,030'. DECREASED MW IN PITS 9.8 PPG TO 9.5 PPG.                                                                                                                            |
|           | 13:30 14:00       | 0.50             | CASINT1 | 42               |     | P          | 9,638.0           | RETRIEVED WEAR BUSHING.                                                                                                                                                                                                                                           |
|           | 14:00 20:30       | 6.50             | CASINT1 | 24               |     | P          | 9,638.0           | RU FRANK'S CSG CREW, TORQUE TURN, 10' BAIL EXTENSIONS, & TAWG TOOL. MADE UP & TESTED ONE JT SHOE TRACK. STAGED IN HOLE W/ 7", 29#, HCP-110, LTC, INT CSG TO 4,000'. BROKE CIRC AT 1,000' & 3,000'. CIRC BU FROM 2,000' AT 4 BPM W/ 9.5 PPG MUD. MINIMAL MUD LOSS. |
|           | 20:30 21:00       | 0.50             | CASINT1 | 42               |     | P          | 9,638.0           | REMOVED TRIP NIPPLE. INSTALLED 7" ELEMENT IN ROTATING HEAD.                                                                                                                                                                                                       |
| 6/15/2016 | 21:00 6:00        | 9.00             | CASINT1 | 24               |     | P          | 9,638.0           | CIRC BU FROM 4,000'. SIH WITH 7", 29#, HCP-110, LTC, INT CSG TO 9,600'. BROKE CIRC AT 1,000' INTERVALS & CIRC BU AT 2,000' INTERVALS WITH 6 BPM WITH 9.5 PPG MUD. MINIMAL MUD LOSS.                                                                               |
|           | 6:00 8:00         | 2.00             | CASINT1 | 24               |     | P          | 9,638.0           | TAGGED BOTTOM W/ 7" 29# HCP110 LTC CASING. LD TAG JT. SPACED OUT W/ LANDING JT. LANDED SHOE @ 9628', FC @ 9585' & MARKER JT @ 8375'.                                                                                                                              |
|           | 8:00 10:30        | 2.50             | CASINT1 | 15               |     | P          | 9,638.0           | RD TAWG TOOL. RU CIRC SUB. SLOWLY RAMPED UP PUMP RATE F/ 125 GPM T/ 250 GPM W/ 100% RETURNS. CIRC BU W/ MINIMAL MUD LOSS. MAX BU GAS 2200 UNITS (RIGWATCH) W/ MC F/ 9.5 PPG T/ 9.2 PPG. RD CSG CREW & TORQUE TURN. PJSM W/ HES ON CMT OPERATIONS.                 |

## 2.1 Operation Summary (Continued)

| Date      | Time<br>Start-End | Duration<br>(hr) | Phase   | Activity<br>Code | Sub | OP<br>Code | MD from<br>(usft) | Operation                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------|------------------|---------|------------------|-----|------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | 10:30 14:00       | 3.50             | CASINT1 | 25               |     | P          | 9,638.0           | RD CIRC SUB. RU HES CMT HEAD. TESTED LINES TO 5000 PSI. PUMPED (30) BBL WTR SPACER, 410 SKS (148) BBL 12.5 PPG 2.03 YIELD LEAD CMT & 210 SKS (68) BBL 13 PPG 1.81 YIELD TAIL CMT. DISPLACED W/ (346) BBL 9.5 PPG MUD & (10) BBL WTR @ 6 BPM. FINAL RATE 2 BPM / 1350 PSI. BUMPED PLUG T/ 1950 PSI. BLEED BACK (2) BBL. FLOATS HELD. LOST APPROX 30 BBL WHILE CEMENTING. CALC TOC @ 3675'. RD HES CEMENTERS. |
|           | 14:00 17:00       | 3.00             | CASINT1 | 27               |     | P          | 9,638.0           | WASHED OUT WELL HEAD & HANGER W/ 20 BBL FW. LANDED CSG ON HANGER W/ 240M #. REMOVED LANDING JOINT. RD CASING ELEVATORS & BAILE EXTENSIONS. INSTALLED 4" XT39 SAVER SUB. RU 4" DP ELEVATORS. INSTALLED PACKOFF W/ SETTING TOOL. SET LOCK DOWN SCREWS. TESTED PACKOFF T/ 7M PSI FOR 10 MINUTES.                                                                                                               |
|           | 17:00 22:00       | 5.00             | CASINT1 | 30               |     | P          | 9,638.0           | PJSM. RU WEATHERFORD TESTERS. INSTALLED TEST PLUG. TESTED BLIND RAMS, UPPER & LOWER PIPE RAMS, TD VALVES, TIW VALVE & DART VALVE T/ 250 PSI / 10M PSI. TESTED ANNULAR / T/ 250 PSI / 5M PSI. HELD EACH TEST F/ 10 MIN. PULLED TEST PLUG.                                                                                                                                                                    |
|           | 22:00 23:00       | 1.00             | CASINT1 | 31               |     | P          | 9,638.0           | TESTED CSG T/ 2500 PSI F/ 30 MIN. RD WEATHERFORD TESTERS.                                                                                                                                                                                                                                                                                                                                                   |
|           | 23:00 6:00        | 7.00             | CASINT1 | 14               |     | P          | 9,638.0           | PU 6 1/8" ULTERRA U613M (DOUBLE ROW) BIT & 6" PACKED HOLE ASSEMBLY. ROUSTABOUTS DRIFTED 4" DP WITH 2.375" DRIFT. PUMU 4" XT39 DP FROM RACKS.                                                                                                                                                                                                                                                                |
| 6/16/2016 | 6:00 11:30        | 5.50             | CASINT1 | 14               |     | P          | 9,638.0           | FINISHED PUMU 4" DP FROM RACKS. TAGGED CMT @ 9575'.                                                                                                                                                                                                                                                                                                                                                         |
|           | 11:30 12:30       | 1.00             | CASINT1 | 17               |     | P          | 9,638.0           | DISPLACED HOLE W/ 11.0 PPG MUD WHILE SLIPPING & CUTTING DRILL LINE.                                                                                                                                                                                                                                                                                                                                         |
|           | 12:30 13:00       | 0.50             | CASINT1 | 12               |     | P          | 9,638.0           | SERVICED RIG & TD.                                                                                                                                                                                                                                                                                                                                                                                          |
|           | 13:00 14:00       | 1.00             | CASINT1 | 42               |     | P          | 9,638.0           | INSTALLED RH ELEMENT. PERFORMED FIT PRE TEST.                                                                                                                                                                                                                                                                                                                                                               |
|           | 14:00 15:00       | 1.00             | CASINT1 | 72               |     | P          | 9,638.0           | DRILLED CMT & FE T/ 9628'. W&R RAT HOLE T/ 9638'.                                                                                                                                                                                                                                                                                                                                                           |
|           | 15:00 15:30       | 0.50             | CASINT1 | 33               |     | P          | 9,638.0           | TESTED SHOE T/ 15.4 PPG EMW (2225 PSI / 11.0 PPG MUD).                                                                                                                                                                                                                                                                                                                                                      |
|           | 15:30 6:00        | 14.50            | DRLPRD  | 07               |     | P          | 9,638.0           | DRILLED 9638' - 9970'.                                                                                                                                                                                                                                                                                                                                                                                      |
| 6/17/2016 | 6:00 14:30        | 8.50             | DRLPRD  | 07               |     | P          | 9,970.0           | DRILLED F/ 9970' T/ 10,143'.                                                                                                                                                                                                                                                                                                                                                                                |
|           | 14:30 15:00       | 0.50             | DRLPRD  | 12               |     | P          | 10,143.0          | SERVICED RIG & TD. CIRC SURVEY.                                                                                                                                                                                                                                                                                                                                                                             |
|           | 15:00 16:00       | 1.00             | DRLPRD  | 11               |     | P          | 10,143.0          | WIRELINE SURVEY @ 10,113' / .83 DG.                                                                                                                                                                                                                                                                                                                                                                         |
|           | 16:00 16:30       | 0.50             | DRLPRD  | 12               |     | P          | 10,143.0          | INSTALLED NEW SWIVEL PACKING IN TD.                                                                                                                                                                                                                                                                                                                                                                         |
|           | 16:30 6:00        | 13.50            | DRLPRD  | 07               |     | P          | 10,143.0          | DRILLED 10,143' - 10,410'.                                                                                                                                                                                                                                                                                                                                                                                  |
| 6/18/2016 | 6:00 10:00        | 4.00             | DRLPRD  | 07               |     | P          | 10,410.0          | DRILLED F/ 10,410' F/ 10,525'.                                                                                                                                                                                                                                                                                                                                                                              |
|           | 10:00 10:30       | 0.50             | DRLPRD  | 12               |     | P          | 10,525.0          | SERVICED RIG & TD                                                                                                                                                                                                                                                                                                                                                                                           |
|           | 10:30 15:00       | 4.50             | DRLPRD  | 07               |     | P          | 10,525.0          | DRILLED F/ 10,525' T/ 10,619'. ROP DECLINED TO 12 FPH.                                                                                                                                                                                                                                                                                                                                                      |
|           | 15:00 15:30       | 0.50             | DRLPRD  | 42               |     | P          | 10,619.0          | DROPPED SURVEY TOOL. FLOW CHECKED (NO FLOW). MW 11.5 PPG.                                                                                                                                                                                                                                                                                                                                                   |
|           | 15:30 16:30       | 1.00             | DRLPRD  | 13               |     | P          | 10,619.0          | TFNB. BACKREAMED THE FIRST STAND (ROUTINE). POOH 10 STANDS DP W/ NO PROBLEMS INTO CSG @ 9628'.                                                                                                                                                                                                                                                                                                              |
|           | 16:30 17:00       | 0.50             | DRLPRD  | 42               |     | P          | 10,619.0          | FLOW CHECK (NO FLOW). PULLED RH ELEMENT. INSTALLED TRIP NIPPLE.                                                                                                                                                                                                                                                                                                                                             |
|           | 17:00 21:30       | 4.50             | DRLPRD  | 13               |     | P          | 10,619.0          | TFNB, POOH. SURVEY RECOVERED FROM 10,610' = 0.97°. FUNCTION TESTED BOPE.                                                                                                                                                                                                                                                                                                                                    |
|           | 21:30 4:30        | 7.00             | DRLPRD  | 13               |     | P          | 10,619.0          | TIH WITH BIT #5 AT 80 FPH. PUMU 7 ADDITIONAL DCs. BROKE CIRC AT 2,600' INTERVALS. NO MUD LOST.                                                                                                                                                                                                                                                                                                              |
|           | 4:30 6:00         | 1.50             | DRLPRD  | 07               |     | P          | 10,619.0          | DRILLED 10,619' - 10,670'. TRIP GAS 70 UNITS (ML) / 20 UNITS (RIG WATCH).                                                                                                                                                                                                                                                                                                                                   |
| 6/19/2016 | 6:00 17:30        | 11.50            | DRLPRD  | 07               |     | P          | 10,670.0          | DRILLED F/ 10,670' T/ 11,050'.                                                                                                                                                                                                                                                                                                                                                                              |
|           | 17:30 18:00       | 0.50             | DRLPRD  | 12               |     | P          | 11,050.0          | SERVICED RIG & TD.                                                                                                                                                                                                                                                                                                                                                                                          |
|           | 18:00 6:00        | 12.00            | DRLPRD  | 07               |     | P          | 11,050.0          | DRILLED 11,050 - 11,345'.                                                                                                                                                                                                                                                                                                                                                                                   |
| 6/20/2016 | 6:00 17:30        | 11.50            | DRLPRD  | 07               |     | P          | 11,345.0          | DRILLED F/ 11,345' T/ 11,620'.                                                                                                                                                                                                                                                                                                                                                                              |
|           | 17:30 18:00       | 0.50             | DRLPRD  | 12               |     | P          | 11,620.0          | SERVICED RIG & TD.                                                                                                                                                                                                                                                                                                                                                                                          |


## 2.1 Operation Summary (Continued)

| Date      | Time<br>Start-End | Duration<br>(hr) | Phase   | Activity<br>Code | Sub | OP<br>Code | MD from<br>(usft) | Operation                                                                                                                                                                                                                                                                                                                              |
|-----------|-------------------|------------------|---------|------------------|-----|------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/21/2016 | 18:00 6:00        | 12.00            | DRLINT5 | 07               |     | P          | 11,620.0          | DRILLED 11,620' - 11,950'.                                                                                                                                                                                                                                                                                                             |
|           | 6:00 17:30        | 11.50            | DRLPRD  | 07               |     | P          | 11,950.0          | DRILLED F/ 11,950' T/ 12,295'.                                                                                                                                                                                                                                                                                                         |
|           | 17:30 18:00       | 0.50             | DRLPRD  | 12               |     | P          | 12,295.0          | SERVICED RIG & TD.                                                                                                                                                                                                                                                                                                                     |
|           | 18:00 6:00        | 12.00            | DRLINT5 | 07               |     | P          | 12,295.0          | DRILLED 12,295' - 12,580'.                                                                                                                                                                                                                                                                                                             |
| 6/22/2016 | 6:00 6:30         | 0.50             | DRLPRD  | 07               |     | P          | 12,580.0          | DRILLED F/ 12,580' T/ 12,598'. LOST FULL RETURNS W/ 12 PPG MUD.                                                                                                                                                                                                                                                                        |
|           | 6:30 7:00         | 0.50             | DRLPRD  | 52               |     | N          | 12,598.0          | PUMPED (2) 40 BBL / 35 PPB LCM SWEEPS. LOST 240 BBL BEFORE REGAINING RETURNS W/ PUMP RATE @ 225 GPM.                                                                                                                                                                                                                                   |
|           | 7:00 6:00         | 23.00            | DRLPRD  | 07               |     | P          | 12,598.0          | DRILLED F/ 12,598' T/ 13,153'. PUMPING 35 PPB LCM SWEEPS CONTROL SEEPAGE. PUMP RATE 260 GPM.                                                                                                                                                                                                                                           |
| 6/23/2016 | 6:00 12:30        | 6.50             | DRLPRD  | 07               |     | P          | 13,153.0          | DRILLED 13,153' - 13,307'.                                                                                                                                                                                                                                                                                                             |
|           | 12:30 13:00       | 0.50             | DRLPRD  | 12               |     | P          | 13,307.0          | RIG SERVICE.                                                                                                                                                                                                                                                                                                                           |
|           | 13:00 23:00       | 10.00            | DRLPRD  | 07               |     | P          | 13,307.0          | DRILLED 13,307' - 13,458'. TD WELL @ 23:00 HRS 6/22/2016. 13.2 PPG TD MW WITH 56 UNITS BG GAS.                                                                                                                                                                                                                                         |
|           | 23:00 2:30        | 3.50             | EVLPRD  | 15               |     | P          | 13,458.0          | SIMULATE CONN & CBU. MAX GAS 2,360 UNITS, NO FLARE, 4/10 MC. C&C MUD TO 13.4 PPG. FC, WELL STATIC.                                                                                                                                                                                                                                     |
|           | 2:30 6:00         | 3.50             | EVLPRD  | 13               |     | P          | 13,458.0          | WIPER TRIP TO 7" SHOE @ 9,628'.                                                                                                                                                                                                                                                                                                        |
| 6/24/2016 | 6:00 7:30         | 1.50             | EVLPRD  | 13               |     | P          | 13,458.0          | WIPER TRIP FOR LOGS.                                                                                                                                                                                                                                                                                                                   |
|           | 7:30 9:30         | 2.00             | EVLPRD  | 15               |     | P          | 13,458.0          | C&C. MAX GAS 1,670 UNITS. NO FLARE. MUD CUT 13.4 TO 13.2 PPG. LOST 46 BBLS CIRC @ 4 BPM.                                                                                                                                                                                                                                               |
|           | 9:30 10:00        | 0.50             | EVLPRD  | 13               |     | P          | 13,458.0          | FLOW CHECK WELL STATIC.                                                                                                                                                                                                                                                                                                                |
|           | 10:00 19:00       | 9.00             | EVLPRD  | 13               |     | P          | 13,458.0          | POOH & LD BHA.                                                                                                                                                                                                                                                                                                                         |
|           | 19:00 0:30        | 5.50             | EVLPRD  | 22               |     | P          | 13,458.0          | PJSM. RU & RAN ULTRA SLIM QUAD COMBO TO 13,452'. LOG UP TO 7" SHOE @ 9,628'. POOH & RD.                                                                                                                                                                                                                                                |
|           | 0:30 6:00         | 5.50             | CASPRD1 | 24               |     | P          | 13,458.0          | PJSM. RU & RAN 97 JTS 5" 18# HCP-110 STL LINER, 3 MARKERS. MU VERSAFLEX HANGER.                                                                                                                                                                                                                                                        |
| 6/25/2016 | 6:00 7:30         | 1.50             | CASPRD1 | 24               |     | P          | 13,458.0          | FINISH RUNNING 5" 18# HCP-110 STL LINER. MU VERSAFLEX HANGER. FC, FS, LC, 97 JTS 5" 18# HCP-110 STL LINER, 3 MARKERS & VERSAFLEX HANGER. TOTAL OF 4,008'.                                                                                                                                                                              |
|           | 7:30 8:30         | 1.00             | CASPRD1 | 15               |     | P          | 13,458.0          | CIRC BU @ 2.5 BPM. RD CSG CREW. INSTALLED RH ELEMENT.                                                                                                                                                                                                                                                                                  |
|           | 8:30 14:00        | 5.50             | CASPRD1 | 24               |     | P          | 13,458.0          | TIH W/ 5" LINER ON 4" DP @ 95 FPM TO 9,628'. BREAK CIRC EVERY 1,000', CBU EVERY 2,000'. CBU @ 7" SHOE. MAX GAS 107 UNITS.                                                                                                                                                                                                              |
|           | 14:00 19:00       | 5.00             | CASPRD1 | 24               |     | P          | 13,458.0          | TIH @ 80 FPM WITH 5" LINER ON 4" DP. BREAK CIRC EVERY 1,000' & CBU EVERY 2,000'. TAG BTM WITH 15K. SPACE OUT.                                                                                                                                                                                                                          |
|           | 19:00 23:00       | 4.00             | CASPRD1 | 15               |     | P          | 13,458.0          | CIRC 2X BU @ 2.5 BPM, MAX GAS 590 UNITS. 3' FLARE, NO GAIN, 9/10 MC. FINAL CIRC PRESSURE 680 PSI @ 2.5 BPM. NO LOSSES.                                                                                                                                                                                                                 |
|           | 23:00 2:00        | 3.00             | CASPRD1 | 25               |     | P          | 13,458.0          | RU HES & TESTED LINES TO 9,500 PSI. PUMPED 30 BBLS 13 PPG TUNED SPACER & 460 SKS ( 119.6 BBLS) 14.2 PPG WITH 1.46 YIELD EXPANDACEM CMT @ 25% EXCESS. WASHED LINES. DROPPED DP DART. PUMPED 50 BBLS 9.8 PPG BRINE, 30 BBLS FW, 85 BBLS 12.8 PPG MUD. BUMP PLUG @ 02:00 HRS WITH 3,337 PSI. PRESSURE PRIOR TO LAND 3,076 PSI. NO LOSSES. |
|           | 2:00 2:30         | 0.50             | CASPRD1 | 25               |     | P          | 13,458.0          | DROP BALL & RUPTURE DISC @ 5,360 PSI. PUMPED 50 BBLS, PRESSURED TO 6,700 PSI, EXPANDED HANGER. PULL TESTED LINER WITH 50K OVERPULL. SAT DOWN 40K, RELEASED SETTING TOOL FROM LINER HANGER. LANDED FS @ 13,453', FC @ 13,407', LC @ 13,365". TOL @ 9,445'. 183' OF LAP. TOTAL LINER 4,008'. MARKER JT TOP @ 12,445', 11,454', 10,477'.  |
|           | 2:30 3:30         | 1.00             | CASPRD1 | 15               |     | P          | 13,458.0          | PULLED UP TO TOL. OBSERVED 2 OVERPULL OF 2K THROUGH CLAD SECTION. CIRC 1.5 TIMES ANNULAR VOLUME. 30 BBLS SPACER & 36 BBLS WEIGHTED CEMENT TO SURFACE. FC, WELL STATIC. POSITIVE TEST TOL TO 1,000 PSI FOR 10MIN, GOOD TEST.                                                                                                            |
|           |                   |                  |         |                  |     |            |                   |                                                                                                                                                                                                                                                                                                                                        |

## 2.1 Operation Summary (Continued)

| Date      | Time<br>Start-End | Duration<br>(hr) | Phase   | Activity<br>Code | Sub | OP<br>Code | MD from<br>(usft) | Operation                                                                                                                                                                      |
|-----------|-------------------|------------------|---------|------------------|-----|------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | 3:30 6:00         | 2.50             | CASPRD1 | 15               |     | P          | 13,458.0          | DISPLACE HOLE WITH 9.8 PPG BRINE. FC, WELL STATIC.<br>RD CEMENT HEAD & LINES                                                                                                   |
| 6/26/2016 | 6:00 18:30        | 12.50            | CASPRD1 | 13               |     | P          | 13,458.0          | LDDP & LINER SETTING TOOL.                                                                                                                                                     |
|           | 18:30 23:00       | 4.50             | CASPRD1 | 29               |     | P          | 13,458.0          | ND BOPE. OBSERVED DAMAGE SEAL ON 7" PACK-OFF.                                                                                                                                  |
|           | 23:00 1:00        | 2.00             | CASPRD1 | 27               |     | P          | 13,458.0          | CHANGE OUT SEALS ON PACK-OFF & TESTED TO 7,000<br>PSI FOR 10 MINUTES. NU TBG HEAD & FRAC VALVE.<br>TESTED HEAD TO 10,000 PSI FOR 30 MIN. RIG RELEASED<br>@ 01:00 HRS 06/26/16. |
|           | 1:00 6:00         | 5.00             | RDMO    | 02               |     | P          | 13,458.0          | RIG DOWN. 40% RIGGED DOWN.                                                                                                                                                     |
| 6/27/2016 | 6:00 6:00         | 24.00            | RDMO    | 02               |     | P          | 13,458.0          | RDMO. 100% RD. 55% MOVED. MOVING TO THE<br>HORROCKS 2-35 A1E.                                                                                                                  |



|                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                               |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
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| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>FORM 9</b>                                                 |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>1420H622662 |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>1. TYPE OF WELL</b><br>Oil Well                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE           |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>2. NAME OF OPERATOR:</b><br>EP ENERGY E&P COMPANY, L.P.                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>7. UNIT or CA AGREEMENT NAME:</b>                          |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>3. ADDRESS OF OPERATOR:</b><br>1001 Louisiana, Houston, TX, 77002                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>8. WELL NAME and NUMBER:</b><br>Murray 3-27A1E             |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0724 FNL 1962 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NENW Section: 27 Township: 01.0S Range: 01.0E Meridian: U                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>9. API NUMBER:</b><br>43047554770000                       |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>PHONE NUMBER:</b><br>713 997-5138 Ext                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>9. FIELD and POOL or WILDCAT:</b><br>BLUEBELL              |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>COUNTY:</b><br>UINTAH                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>STATE:</b><br>UTAH                                         |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                               |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>TYPE OF SUBMISSION</b><br><br><input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>7/13/2016<br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date: | <b>TYPE OF ACTION</b><br><br><table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input checked="" type="checkbox"/> OTHER</td> <td>OTHER: <input type="text" value="New Well Completion"/></td> </tr> </table> |                                                               | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> PRODUCTION START OR RESUME | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL | <input type="checkbox"/> TEMPORARY ABANDON | <input type="checkbox"/> TUBING REPAIR | <input type="checkbox"/> VENT OR FLARE | <input type="checkbox"/> WATER DISPOSAL | <input type="checkbox"/> WATER SHUTOFF | <input type="checkbox"/> SI TA STATUS EXTENSION | <input type="checkbox"/> APD EXTENSION | <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input checked="" type="checkbox"/> OTHER | OTHER: <input type="text" value="New Well Completion"/> |
| <input type="checkbox"/> ACIDIZE                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> ALTER CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> CASING REPAIR                        |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <input type="checkbox"/> CHANGE TO PREVIOUS PLANS                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> CHANGE TUBING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> CHANGE WELL NAME                     |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <input type="checkbox"/> CHANGE WELL STATUS                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> CONVERT WELL TYPE                    |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <input type="checkbox"/> DEEPEN                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> FRACTURE TREAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> NEW CONSTRUCTION                     |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <input type="checkbox"/> OPERATOR CHANGE                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> PLUG AND ABANDON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> PLUG BACK                            |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <input type="checkbox"/> PRODUCTION START OR RESUME                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> RECLAMATION OF WELL SITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION       |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <input type="checkbox"/> REPERFORATE CURRENT FORMATION                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> SIDETRACK TO REPAIR WELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> TEMPORARY ABANDON                    |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <input type="checkbox"/> TUBING REPAIR                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> VENT OR FLARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> WATER DISPOSAL                       |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <input type="checkbox"/> WATER SHUTOFF                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> SI TA STATUS EXTENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> APD EXTENSION                        |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <input type="checkbox"/> WILDCAT WELL DETERMINATION                                                                                                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | OTHER: <input type="text" value="New Well Completion"/>       |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br>Please see attached completion procedure along with current and post WBD's.                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                               |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>Accepted by the<br/>         Utah Division of<br/>         Oil, Gas and Mining</b><br><br><b>Date:</b> July 07, 2016<br><b>By:</b>                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                               |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>NAME (PLEASE PRINT)</b><br>Linda Renken                                                                                                                                                                                                                                                                                                                                     | <b>PHONE NUMBER</b><br>713 997-5138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>TITLE</b><br>Sr. Regulatory Analyst                        |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |
| <b>SIGNATURE</b><br>N/A                                                                                                                                                                                                                                                                                                                                                        | <b>DATE</b><br>7/6/2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                               |                                  |                                       |                                        |                                                   |                                        |                                           |                                             |                                                         |                                            |                                 |                                         |                                           |                                          |                                           |                                    |                                                     |                                                   |                                                         |                                                        |                                                   |                                            |                                        |                                        |                                         |                                        |                                                 |                                        |                                                     |                                           |                                                         |

**Murray 3-27A1E Stimulation Summary**

|                          | Top<br>Perf | Btm.<br>Perf | Gross<br>Interval | Plug<br>Depth | Net Perf<br>Length | Total<br>Shots | Perf<br>Intervals | Type of Prop | Lbs of Prop      | Lbs/ft     | Lbs of<br>100 Mesh | Gals of<br>HCL (15%) | BBLs of<br>Clean H2O | BBLs of<br>Slurry |
|--------------------------|-------------|--------------|-------------------|---------------|--------------------|----------------|-------------------|--------------|------------------|------------|--------------------|----------------------|----------------------|-------------------|
| Stage #1                 | 13,157      | 13,358       | 201               | N/A           | 23                 | 69             | 17                | THS 30/50    | 150,000          | 746        | 3,000              | 5,000                | 3,797                | 4,090             |
| Stage #2                 | 12,968      | 13,126       | 158               | 13,141        | 21                 | 63             | 16                | THS 30/50    | 120,000          | 759        | 3,000              | 5,000                | 3,361                | 3,597             |
| Stage #3                 | 12,770      | 12,937       | 167               | 12,952        | 20                 | 60             | 15                | THS 30/50    | 125,000          | 749        | 3,000              | 5,000                | 3,425                | 3,671             |
| Stage #4                 | 12,548      | 12,738       | 190               | 12,753        | 21                 | 63             | 17                | THS 30/50    | 140,000          | 737        | 3,000              | 5,000                | 3,632                | 3,906             |
| Stage #5                 | 12,296      | 12,509       | 213               | 12,524        | 23                 | 69             | 17                | TLC 30/50    | 150,000          | 704        | 3,000              | 5,000                | 3,767                | 4,048             |
| Stage #6                 | 12,090      | 12,266       | 176               | 12,281        | 22                 | 66             | 17                | TLC 30/50    | 125,000          | 710        | 3,000              | 5,000                | 3,401                | 3,637             |
| Stage #7                 | 11,852      | 12,058       | 206               | 12,073        | 23                 | 69             | 17                | TLC 30/50    | 150,000          | 728        | 3,000              | 5,000                | 3,751                | 4,032             |
| Stage #8                 | 11,632      | 11,820       | 188               | 11,835        | 23                 | 69             | 17                | TLC 30/50    | 135,000          | 718        | 3,000              | 5,000                | 3,528                | 3,782             |
| <b>Average per Stage</b> |             |              | <b>187</b>        |               | <b>22</b>          | <b>66</b>      | <b>17</b>         |              | <b>136,875</b>   | <b>731</b> | <b>3,000</b>       | <b>5,000</b>         | <b>3,583</b>         | <b>3,845</b>      |
| <b>Totals per Well</b>   |             |              | <b>1,499</b>      |               | <b>176</b>         | <b>528</b>     | <b>133</b>        |              | <b>1,095,000</b> |            | <b>24,000</b>      | <b>40,000</b>        | <b>28,662</b>        | <b>30,763</b>     |

Top Perf: 11,632  
Bottom Perf: 13,358

Number of Stages 8

Well will be flowed back for 3 - 6 days before tubing up.

| Tops           | Depth  |
|----------------|--------|
| Liner Top:     | 9,445  |
|                | -      |
| Stage #8 Plug  | 11,835 |
| Stage #7 Plug  | 12,073 |
| Stage #6 Plug  | 12,281 |
| Stage #5 Plug  | 12,524 |
| Stage #4 Plug  | 12,753 |
| Stage #3 Plug  | 12,952 |
| Stage #2 Plug  | 13,141 |
| Stage #1 Plug  | N/A    |
| Landing Collar | 13,366 |
| Float Collar   | 13,408 |
| Float Collar   | 13,408 |
| Packer         | 9,545  |

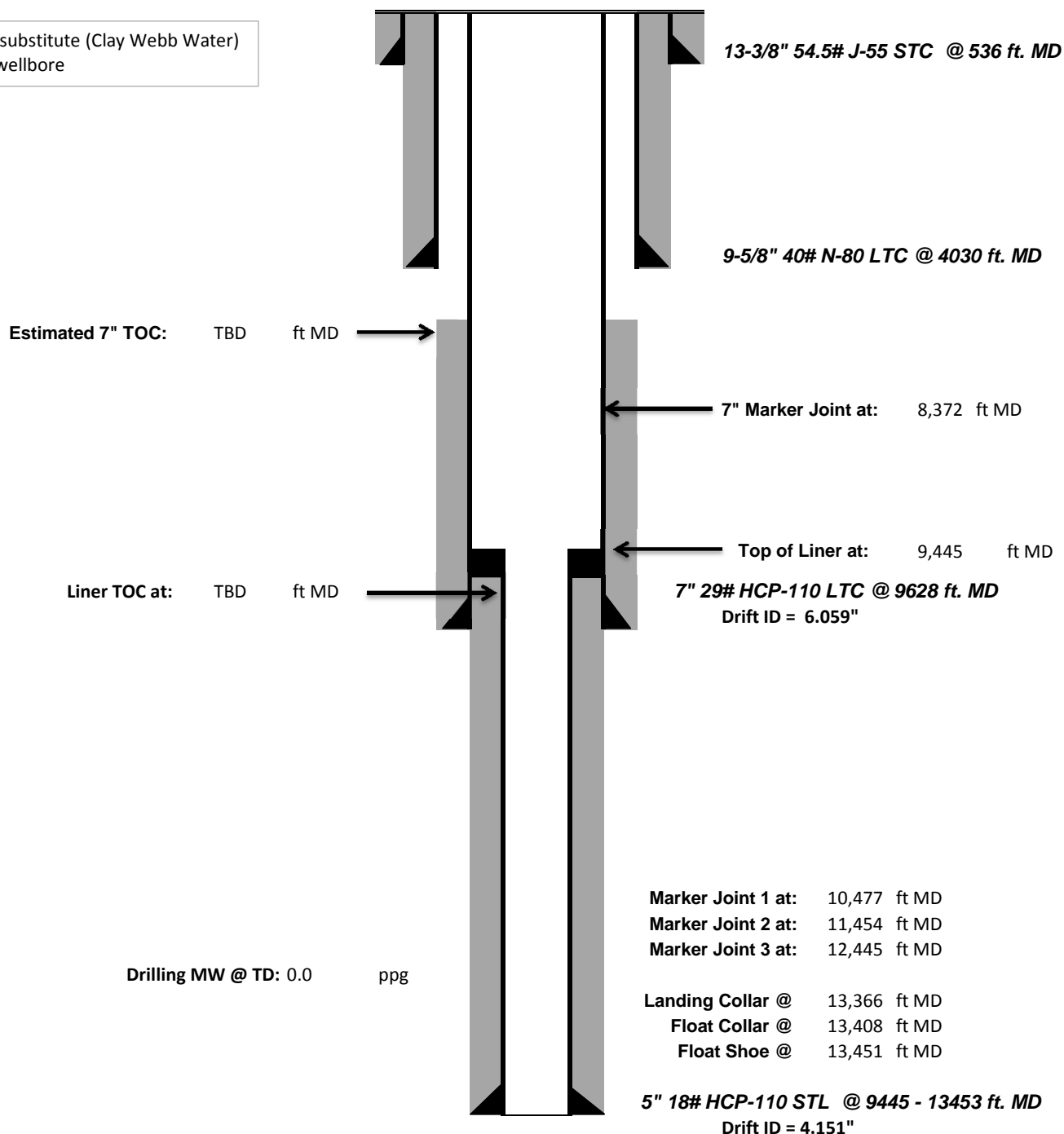


**Pre-Completion Wellbore Schematic**

Well Name: **Murray 3-27A1E**  
 Company Name: **EP Energy E&P Company, L.P.**  
 Field, County, State: **Altamont, Duchesne, Utah**  
 Surface Location: **Lat: 40 22' 21.979"N Long: 109 52' 14.750"W**  
 Producing Zone(s): **Wasatch**

Last Updated: **7/1/2016**  
 By: **Krug**  
 TD: **13,451**  
 API: **43-047-55477**  
 AFE: **156833**

8.43 ppg KCL substitute (Clay Webb Water)  
 water in the wellbore



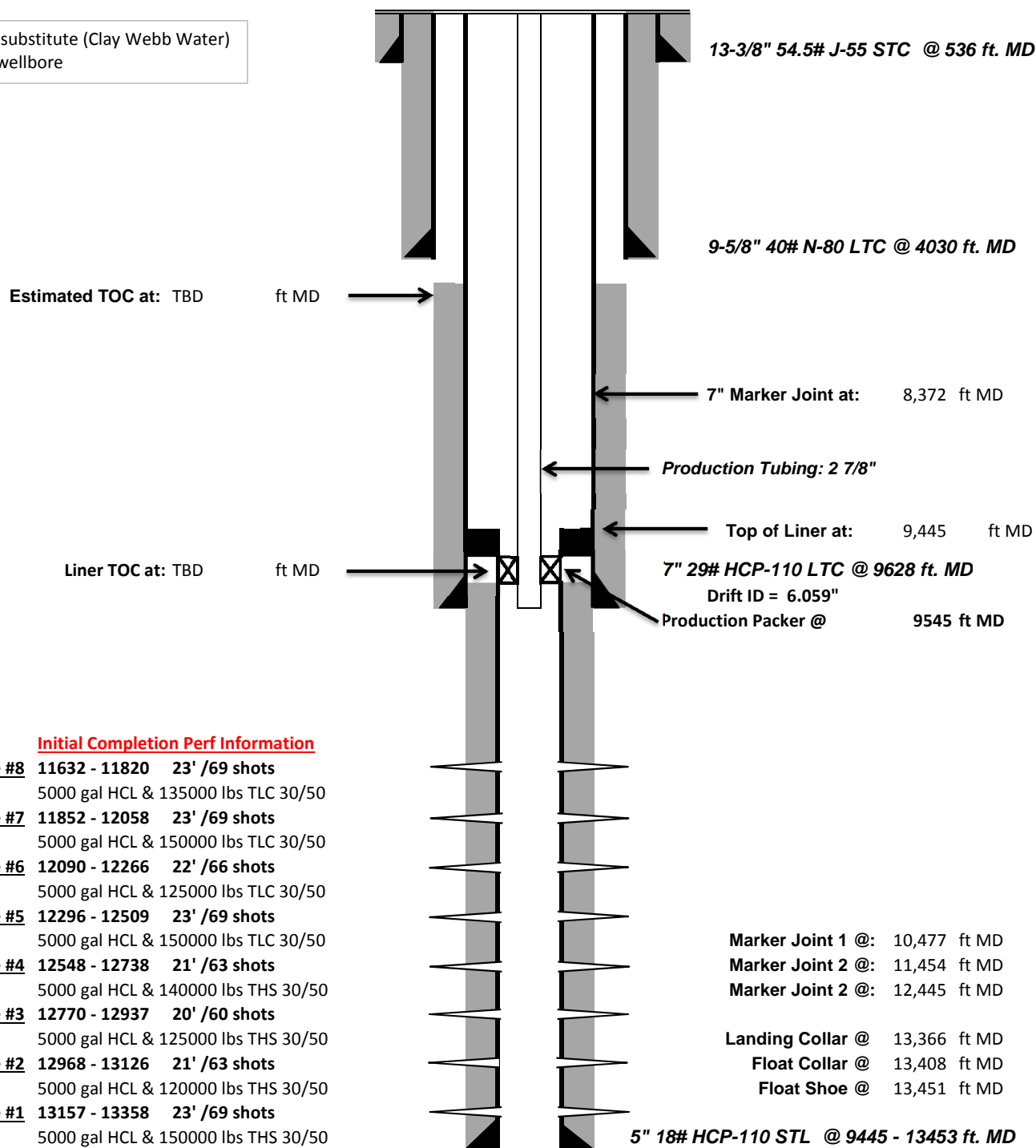


### Post-Completion Wellbore Schematic

Well Name: **Murray 3-27A1E**  
 Company Name: **EP Energy E&P Company, L.P.**  
 Field, County, State: **Altamont, Duchesne, Utah**  
 Surface Location: **Lat: 40 22' 21.979"N Long: 109 52' 14.750"W**  
 Producing Zone(s): **Wasatch**

Last Updated: **7/5/2016**  
 By: **Krug**  
 TD: **13,451**  
 API: **43-047-55477**  
 AFE: **156833**

8.43 ppg KCL substitute (Clay Webb Water)  
 water in the wellbore



Marker Joint 1 @: 10,477 ft MD  
 Marker Joint 2 @: 11,454 ft MD  
 Marker Joint 2 @: 12,445 ft MD  
 Landing Collar @ 13,366 ft MD  
 Float Collar @ 13,408 ft MD  
 Float Shoe @ 13,451 ft MD